ComEd
An Exelon Company

Smart Grid Advanced Metering Annual Implementation Progress Report

Submitted by:
Commonwealth Edison Company

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ComEd
An Exelon Company

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I. Introduction and Overview

Commonwealth Edison Company ("ComEd") presents the Final Annual Implementation Progress Report ("Report" or "AIPR") of its Smart Grid Advanced Metering Infrastructure ("AMI") Deployment Plan ("AMI Plan" or "Plan") to the Illinois Commerce Commission ("Commission" or "ICC"). ComEd's original proposed AMI Plan was filed on April 23, 2012 in ICC Docket No. 12-0298. The Commission entered an Order approving ComEd's AMI Plan with certain modifications on June 22, 2012 in ICC Docket No. 12-0298 ("June 2012 Order"). ComEd filed a modified AMI Plan in compliance with the June 2012 Order in ICC Docket No. 12-0298 on July 13, 2012 ("Modified AMI Plan"). On October 3, 2012, ComEd submitted a revised Modified AMI Plan on rehearing in ICC Docket No. 12-0298 ("Revised AMI Plan"). The Revised AMI Plan was approved by the Commission in its Order on Rehearing in ICC Docket No. 12-0298 dated December 5, 2012 ("December 2012 Order"). On April 1, 2013, ComEd submitted the 2013 AIPR, which included certain updates to the Revised AMI Plan ("2013 Revised AMI Plan"). On April 9, 2013, the ICC opened ICC Docket No. 13-0285 to investigate the 2013 AIPR. After the passage of PA 98-0015, the ICC entered an Interim Order on June 5, 2013 approving an accelerated deployment schedule in conformance with the new law. The 2013 AIPR was approved in the final Order entered on June 26, 2013 in ICC Docket No. 13-0285 ("2013 AIPR Order").

On March 13, 2014, ComEd filed a petition with the Commission seeking approval to accelerate the deployment of AMI meters (throughout this document, the terms "AMI meters" and "smart meters" will be used interchangeably) that was assigned ICC Docket No. 14-0212. The Commission, on its own motion, reopened Docket Nos. 12-0298 and 13-0285 and consolidated those dockets with the acceleration petition as ICC Docket Nos. 14-0212, 13-0285, 12-0298 (Cons.) ("Deployment Acceleration Proceeding"). On April 1, 2014, ComEd submitted the 2014 AIPR, including updates to the 2013 Revised AMI Plan to reflect the incremental updates to be made if the Commission approved the proposed accelerated meter deployment schedule in the Deployment Acceleration Proceeding. The Commission approved the proposed accelerated deployment schedule in its final Order dated June 11, 2014, in Docket Nos. 14-0212, 13-0285, 12-0298 (cons.), and required certain modifications to the updated 2013 Revised AMI Plan to reflect that ComEd's consumer education budget will be maintained and that ComEd will devote the same level of resources for education and outreach that it had planned under the acceleration schedule approved in Docket No. 13-0285. On July 2, 2014, in compliance with the Commission's June 11, 2014 final Order, ComEd filed a Revised AMI Plan ("2014 Revised AMI Plan") reflecting the changes approved and required by the Commission in the Deployment Acceleration Proceeding.

On April 1, 2015, ComEd submitted the 2015 AIPR, with updates to the 2014 Revised AMI Plan ("2015 Revised AMI Plan"). These updates presented a change to the operational tracking measure for customers with net metering and updated the AMI Deployment Schedule to reflect actual deployments to date (above planned deployment levels). The 2015 Revised AMI Plan was deemed accepted by the Commission by operation of law when an investigation of the 2015 AIPR was not commenced within 21 days of its filing.[1] On April 1, 2016, ComEd submitted the 2016 AIPR, with updates to the 2015 Revised AMI Plan ("2016 Revised AMI Plan"). These updates presented changes to the AMI Deployment Schedule to reflect actual

deployments in 2015 (above planned deployment levels) and to update the estimated program costs. On April 20, 2016, ComEd submitted a supplemental filing, as indicated in the 2016 Revised AMI Plan, reflecting the results for updated Metric #9 regarding Green House Gas ("GHG") emissions. The 2015 Revised AMI Plan was deemed accepted by the Commission by operation of law when an investigation of the 2016 AIPR was not commenced within 21 days of its filing. On April 3, 2017, ComEd submitted the 2017 AIPR, with updates to the 2016 Revised AMI Plan ("2016 Revised AMI Plan"). These updates presented changes to the AMI Deployment Schedule to reflect actual deployments in 2016 (above planned deployment levels) and to update the estimated program costs. On April 20, 2017, ComEd submitted a supplemental filing, as indicated in the 2016 Revised AMI Plan, reflecting the results for updated Metric #9 regarding Green House Gas ("GHG") emissions. The 2016 Revised AMI Plan was deemed accepted by the Commission by operation of law when an investigation of the 2017 AIPR was not commenced within 21 days of its filing. On April 2, 2018, ComEd submitted the 2018 AIPR, with updates to the 2017 Revised AMI Plan ("2018 Revised AMI Plan"). These updates presented changes to the AMI Deployment Schedule to reflect actual deployments in 2017 (above planned deployment levels) and to update the estimated program costs. The 2017 Revised AMI Plan was deemed accepted by the Commission by operation of law when an investigation of the 2018 AIPR was not commenced within 21 days of its filing. On April 1, 2019, ComEd submitted the 2019 AIPR, with updates to the 2018 Revised AMI Plan ("2019 Revised AMI Plan"). These updates presented changes to the AMI Deployment Schedule to reflect completion of mass deployment in 2018. The 2018 Revised AMI Plan was deemed accepted by the Commission by operation of law when an investigation of the 2019 AIPR was not commenced within 21 days of its filing. On April 1, 2020, ComEd submitted the 2020 AIPR, with updates to the 2019 Revised AMI Plan ("2020 Revised AMI Plan"). These updates presented changes to the AMI Deployment Schedule to reflect completion of the AMI program in 2019. The 2019 Revised AMI Plan was deemed accepted by the Commission by operation of law when an investigation of the 2020 AIPR was not commenced within 21 days of its filing.

This Final Report summarizes the activities and achievements accomplished in 2020 in the areas of AMI Operational Deployment, Customer Applications, Customer Outreach and Education, and Metrics and Milestones. There are four (4) numerical attachments to this Report that are referenced in the Metrics and Milestones section. Additionally, there are three (3) appendices to this Report. Appendix A addresses issues and topics beyond those specified for inclusion in this Report by Section 16-108.6(e) of the Public Utilities Act ("PUA"), that the Commission originally directed ComEd to submit with its 2013 AIPR, and that ComEd has voluntarily chosen to update in this AIPR for informational purposes only. Appendix B is the ninth Biannual Report required by ComEd's Rider NAM – Non-AMI Metering ("Rider NAM"). Finally, Appendix C contains the verifying statement that the implantation of the AMI plan is complete.

Operational Deployment

The AMI Operational Deployment concluded 12/31/19, please refer to the AIPR filed 4/1/20 for more detail.

Customer Applications

In 2020, ComEd continued to offer and grow applications that provide customers with additional benefits from AMI deployment. Accomplishments include: (1) successful completion of the summer demand response season for the Peak Time Savings ("PTS") and AC Cycling Smart Thermostat programs; (2) growth of the Hourly Pricing program and smart LED streetlight service; and (3) launch of a new pilot program involving Chicago Public schools that will remotely identify and verify operational improvements using 30-minute AMI usage data.

Key initiatives planned for 2021 include analyzing the Hourly Pricing Bill Protection Pilot "risk-free guarantee" offer to determine its effectiveness and potential inclusion as a permanent feature of the program, increasing Low-Middle Income targeting for the PTS program and implementing a unique notification track that will feature ComEd financial assistance programs, and expanding the IFTTT capabilities available to ComEd customers that will enable seamless enrollment in smart-home device automation applets through linking of IFTTT services to ComEd accounts, and a new carbon intensity trigger to encourage shifting energy use to cleaner times of the day.

Customer Outreach and Education

In 2020, the AMI team continued customer outreach and education to help customers take advantage of smart meter benefits. This included: (1) general education to provide customers with information on tools and programs enabled by smart meters; (2) continuing the use of messaging to educate customers about energy-saving tips and Energy Efficiency ("EE") programs; and (3) continued promotion of online energy-management and savings tools accessible through MyAccount. Outreach and education efforts in 2021 will focus on educating customers about EE programs and energy-management tools.

Consultation with Smart Grid Advisory Council ("SGAC")

As required by Section 16-108.6(e) of the PUA, 220 ILCS 5/16-108.6(e), ComEd consulted with the available members of the SGAC regarding this AIPR on March 25, 2021. ComEd made a presentation on its AIPR at that meeting, and personnel were present that were knowledgeable on each relevant subject.

AMI Plan Revisions

The AMI Operational Deployment concluded 12/31/19, please refer to the AIPR filed 4/1/20 for more detail.

II. AMI Operational Deployment

A. 2020 Activities and Accomplishments

The AMI Operational Deployment concluded 12/31/19, please refer to the AIPR filed 4/1/20 for more detail. ComEd is listing each subpart from the prior AIPR below for informational purposes only.

1. Project Management Office ("PMO")

2. AMI Network and Meter Deployment

Network Deployment

Meter Deployment

Operating Area Close-out and Unable to Complete ("UTC") Orders

Program Ramp-down

Repairs and Upgrades

Safety

Meter Deployment Work Planning

AMI Operations

3. Smart City Lab

4. Customer Experience

Call Center Operations

Customer Experience

5. AMI Information Technology ("IT") and Business Transformation ("BT")

Transformed Operations

Outage Management

Security and Redundancy of Data and Systems

Customer and Financial Benefits

6. Change Management and Business Readiness

Communications

B. 2021 Activities and Goals

Project Management Office

1. AMI Network and Meter Deployment

2. Customer Experience

3. AMI Information Technology and Business Transformation

4. Change Management and Business Readiness

C. Budget

2020 – Actual Spend

Meters and Deployment

Communication System

IT Applications and Operations

Project Management and Other Costs

D. 2021 Projected Spend

Meters and Deployment

Communication System

IT Applications and Operations

Project Management and Other Costs

III. Customer Applications

A. Introduction

With the completion of smart meter installations throughout ComEd's service territory, more than four million customers have the ability to benefit from the innovative programs and cost savings made possible by AMI. ComEd is continuously exploring improvements to existing offerings and considering new products and services that help customers realize tangible benefits from the investments in AMI.

To guide the selection and development of customer applications, ComEd follows the principle of using AMI capabilities to "Inform", "Facilitate", "Collaborate", "Enable", and "Deliver".

- Inform ComEd's customers and industry third parties of new energy products and services that can help them personalize their energy footprint. Provide customers with easy access to their interval energy usage data and actionable insights for reducing their energy costs. Web tools and proactive notifications for energy management demonstrate how ComEd is helping residential and C&I customers understand and act on their energy usage data.

- Facilitate the ability of customers and third parties to access AMI-enabled data, tools, products, and services. Provide a digital hub where customers and third parties can seek and share information. The Community Solar Portal is one example of how ComEd seeks to support third parties to better serve customers.

- Collaborate with entities who can introduce new ideas and help bring more value to customers. For example, the energy savings and new capabilities achieved by the Smart Streetlights project was made possible through close collaboration with municipalities.

- Enable third party development of applications, products, and services that can integrate with ComEd's existing platform or offerings. By making a Peak Time Savings and Hourly Pricing service available on the If This Then That platform, customers can customize and automate how their devices help them participate in these programs.

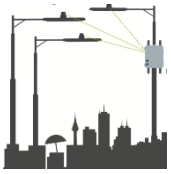
- Deliver AMI-enabled products and services directly to interested customers. Through pricing programs such as Peak Time Savings, Hourly Pricing and the Bill Protection Pilot, and the existing Time of Use pilot, customers can earn bill credits and reduce their supply costs by adjusting when they use electricity.

In 2021, ComEd will continue to assess existing customer applications, survey industry developments, and explore new ways to leverage AMI for customer solutions.

B. 2020 Activities and Accomplishments

The table below summarizes products, services, and programs made possible by AMI that were available to customers in 2020.

2020 Customer Applications of AMI			
Inform and Facilitate	Energy Management Tools	Opt-in notifications and reports, and web-based tools that provide residential and C&I customers with details on their energy usage and actionable tips for reducing energy costs.	
	Data Services	Allows customers to automate the transfer of their usage data to authorized third parties, based on opt-in customer consent and control with Green Button Connect. Offer external entities the ability to purchase anonymized interval data.	
	Digital Solar Toolkit	A suite of tools such as the Community Solar Portal to assist customers and developers in their respective solar journeys.	
	ComEd Marketplace	An online "Beyond the Meter" Marketplace helping customers better manage and control their energy use with select products and services.	
Collaborate and Enable	If This Then That (IFTTT)	Peak Time Savings and Hourly Pricing services on IFTTT enable customers to automate and customize control of their devices to more easily participate in these programs.	

	Smart Meter Connected Devices	Allow customers to directly access their smart meter data through owned compatible devices operating on the Home Area Network.	
	Smart Streetlights	Deployment and operation of a smart LED streetlight solution that leverages ComEd's smart meter communications network.	
Deliver	Peak Time Savings (PTS)	Opt-in demand response program offered to residential customers with smart meters. Enrolled customers receive bill credits for reducing their electricity use during PTS Hours events, which are typically announced when demand for electricity is high.	
	Bring Your Own Thermostat (BYOT)	Option to participate in the AC Cycling program with a Nest smart thermostat instead of the traditional direct load control switch. This program was decommissioned at the end of 2020.	
	Hourly Pricing	Dynamic pricing option that lets residential customers with smart meters pay the hourly wholesale market price for electricity. By shifting usage to off-peak hours, participants are able to save money on their supply costs.	
	Bill Protection Pilot	Pilot which identified 30,000 customers who would have saved at least 16% and offered up to 700 customers a risk-free year on Hourly Pricing during which they are guaranteed to not pay more than ComEd's standard fixed-price rate.	

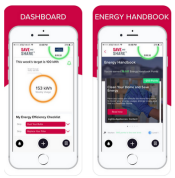
	Capacity Guard Alert	Provides day-ahead notification of possible "coincident peak" (CP) hours to Hourly Pricing program participants to help them manage or reduce their capacity charge in the following year.	
	Residential Time of Use (TOU) Pilot	Pilot program to gauge customer interest, potential bill savings, and peak shaving impacts from a TOU rate with three fixed pricing periods. Enrollment began in 2020.	
	Emerging Technology Pilots	Pilots, such as the Virtual Commisioning pilot in partnership with Chicago Public schools and Power TakeOff, used to test the performance of new program designs and tools using AMI data on their potential to maximize customer energy savings.	

Table 1: Summary of 2020 customer applications stemming from AMI.

1. Inform and Facilitate

a. Energy Management Tools

Currently, ComEd offers the following smart meter-enabled tools that give customers details about their energy usage. Customers can access these tools and set notifications and alerts by signing into their online ComEd account (available at: ComEd.com/MyAccount):

Online AMI Data Insights:

Customers can view their hourly and daily electricity usage and net metered generation. Information about weather, bill estimates, and comparisons to similar homes are provided to help customers understand their energy usage.

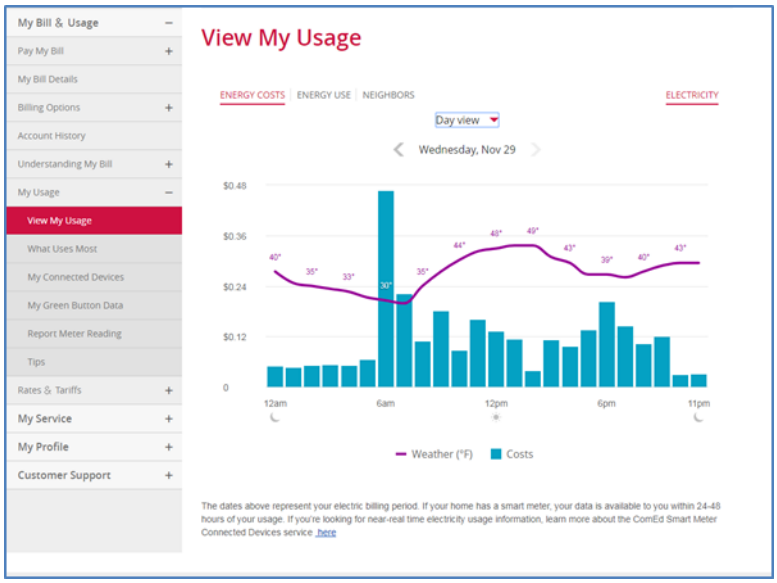


Figure 1: Web tool provides residential customers with easy access to their hourly energy usage and costs as well as insights into their energy use patterns and benchmarks for comparison.

Weekly Usage Reports:

Weekly Usage Reports summarize daily electricity usage, provide a bill projection, and include personalized energy-saving tips.

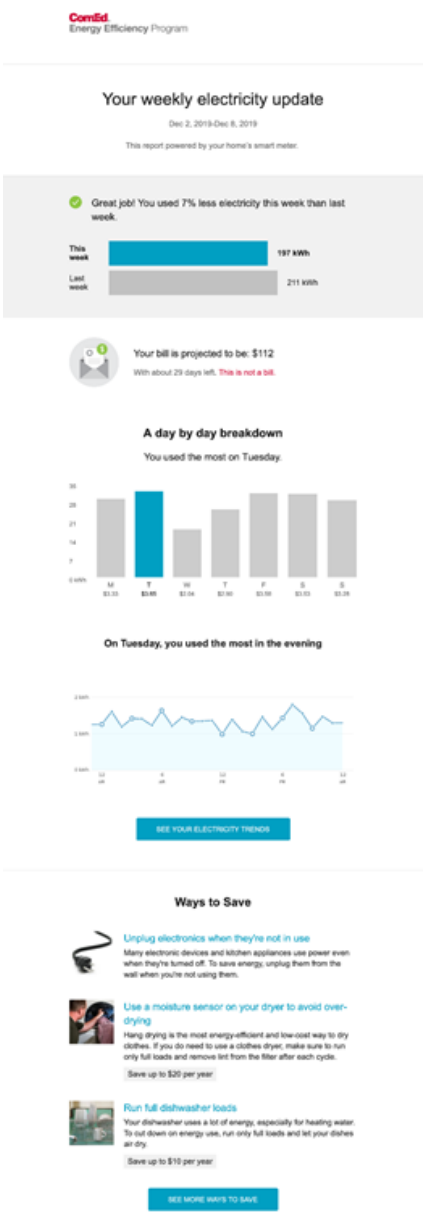


Figure 2: Weekly Usage Report

High-Usage Alerts:

High-Usage Alerts notify customers that their electricity usage is trending higher than usual, so they can make changes before their next bill arrives. High-Usage Alerts are available by text, phone call, or email.

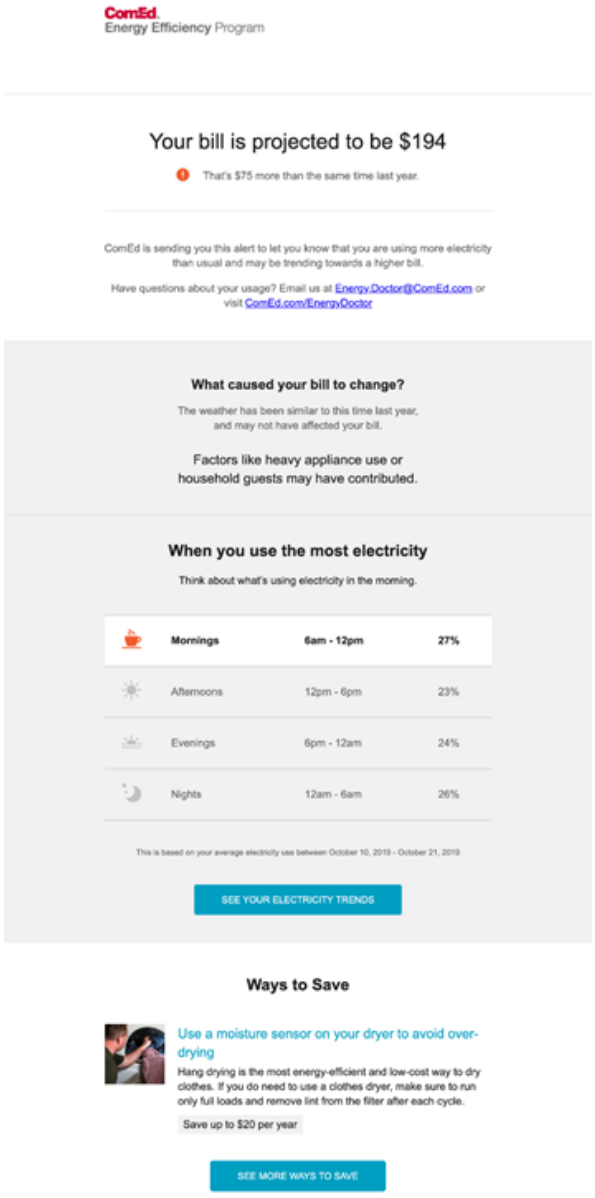


Figure 3: High Usage Alert

Business Energy Analyzer:

The Business Energy Analyzer (BEA) is a free, online tool for ComEd business or public sector customers to enable them to better manage and track their energy usage. The BEA includes a dashboard, off-hour and hot-weather analysis, and recommended energy efficiency projects.

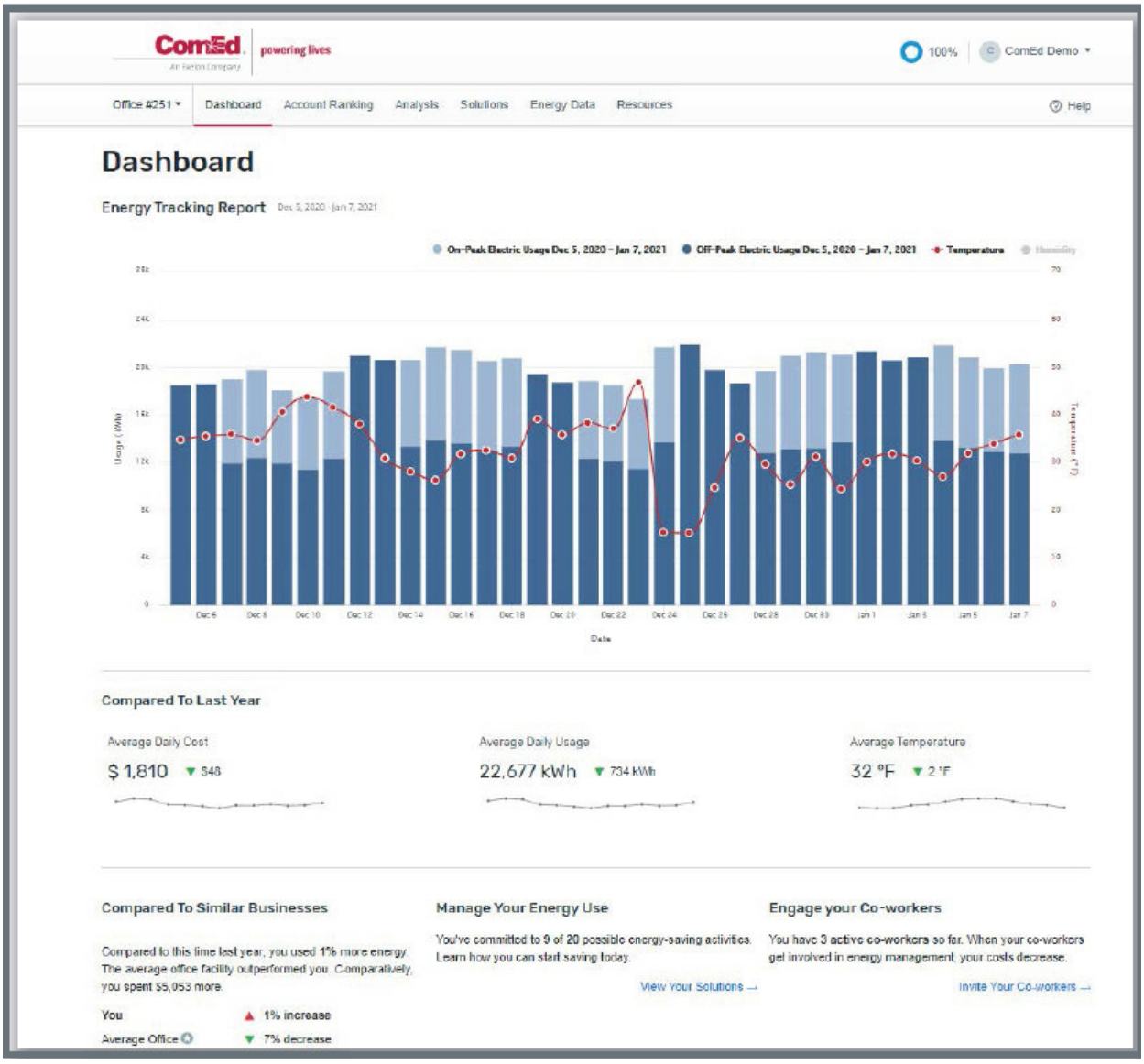


Figure 4: Business Energy Analyzer Dashboard

b. Data Services

Green Button Connect:

ComEd has enabled residential and commercial and industrial ("C&I")[1] customers to consent to the disclosure of their energy information to third parties through an electronic, web-based interface. Green Button is an industry initiative stemming from a White House call to action for utility companies to voluntarily provide customers with easy access to their energy usage in a secure electronic format. Green Button Connect My Data allows customers to authorize third-party service providers to receive direct access to their energy usage analytics via

[1] C&I customers up to 300kW of load can access GBC through ComEd.com.

the Green Button functionality. The ability to transfer data more seamlessly to third party developers will help accelerate applications and analytics that leverage smart meter data.

Pursuant to the ICC's Final Order in Docket 15-0073 issued on March 23, 2015, ComEd deployed the Green Button Connect My Data solution in May 2016 to residential and commercial customers through ComEd.com. Through the implementation of Green Button Connect, ComEd is providing C&I and residential customers with their detailed usage data to enable them to better manage their energy consumption.

Currently, three third-party vendors have completed the Green Button Connect testing process. ComEd is currently working with additional stakeholders on staging and production testing prior to being added to the website. Thirteen third-parties have expressed interest in this offering and are in various stages of the enrollment process.

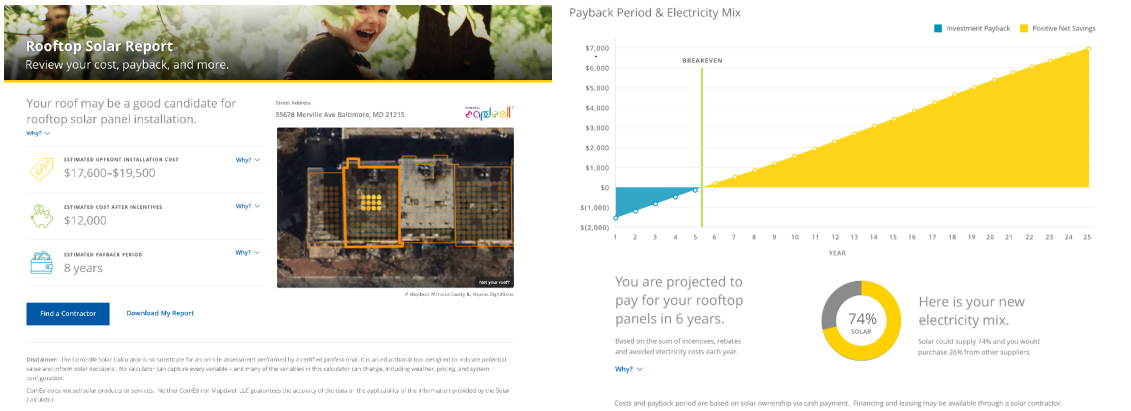
Anonymous Data:

In February 2017, ComEd implemented the Anonymous Data service. This enables external entities to access interval data anonymized per delivery service class per zip code using the 15/15 rule for the entire ComEd service territory for a fee. External entities are given access and permission to download files from a secure site for 35 days with an option to refresh after six (6) months. In 2020, nine (9) external entities have requested this data service.

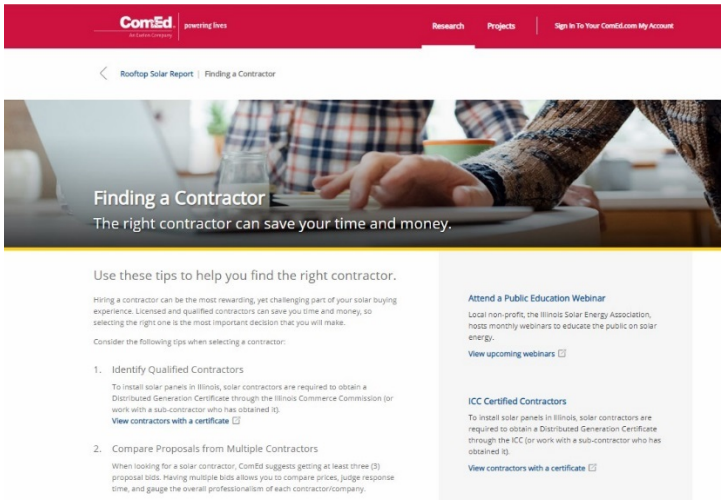
c. Digital Solar Toolkit

In December of 2018, ComEd launched the Digital Solar Toolkit, a suite of online tools for customers to learn about what solar could mean for them. Descriptions of each tool are summarized below.

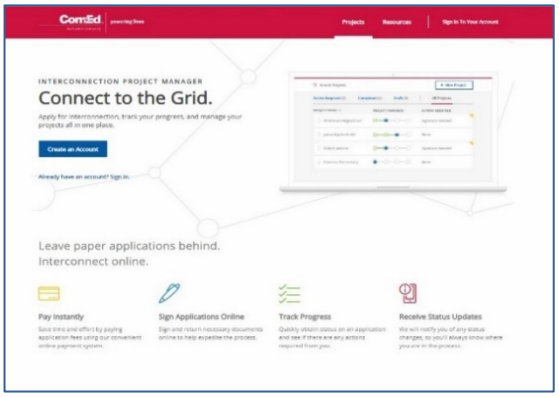
- Solar Calculator – An easy-to-use interactive tool that helps customers understand and explore their solar options. Based on the customer's address, the solar calculator uses factors like the roof's pitch and shading to evaluate their roof's solar potential and the amount of energy a rooftop system could produce. Customers can receive personalized reports featuring the estimated number of solar panels needed, upfront installation costs, potential incentives, environmental benefits and more. Customers who log into their ComEd account can receive an estimate of their payback period based on their historic energy usage.

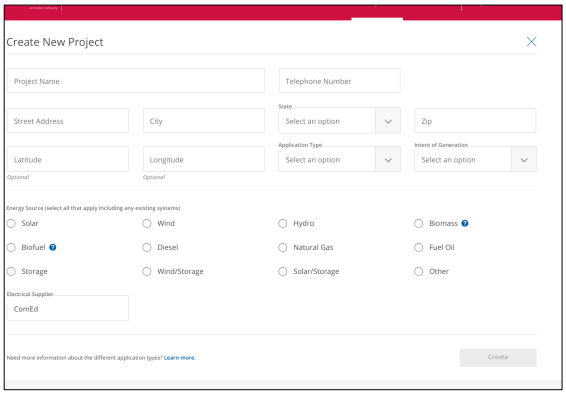


- Finding a Contractor – A page with tools, tips, and resources to help customers select qualified solar contractors.

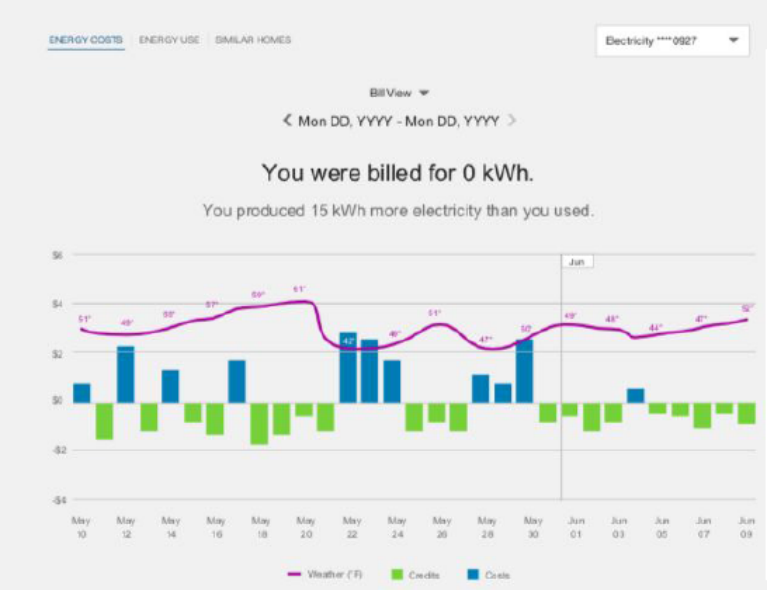


- Contractor Portal – A consolidated source for education and insights relevant to contractors to support them in their solar business.
- Project Tracker – Provide transparency among the utility, contractors, and customer around workflows to connect private solar panels to the electricity grid and to track solar projects through to completion.





- Energy Dashboard (launched in 2019) – Allows customers enrolled in Net Metering to view their net metered credits and electricity costs in a single graph accessible through their online ComEd account.



- Community Solar Portal (launched in 2019) - Gives developers and Community Supply Facility Managers the ability to add subscribers to their community solar projects and to calculate the share of credits that are applied to each subscriber.

In effort to provide a premier customer experience, ComEd also assembled a group of experts called the Green Power Connection ("GPC") Team. This team helps customers make informed decisions about going solar and provides each customer with a single point of contact. The GPC team handles complex solar questions escalated from various departments across the company and provides a seamless end-to-end customer experience.

d. ComEd Marketplace

The ComEd Marketplace provides an easy, user-friendly platform for customers to learn about managing and controlling their energy use, research and investigate ComEd's energy management programs and products, and purchase available energy efficient products. In 2020, ComEd launched its redesigned ComEd Marketplace platform, commonly referred to as "Marketplace 2.0" (see Figure 5 below). The redesigned platform brings more of the Marketplace's functions in-house and expands ComEd's capabilities to aid customers in managing and controlling their energy use. Marketplace 2.0 also improves operational efficiency and provides increased functionality for customers by providing (i) improved personalization by leveraging customers' MyAccount information; (ii) streamlined payments by connecting to customers' MyWallet; (iii) an expanded product catalog; (iv) simplified one-click enrollment in ComEd programs including Demand Response (see Figure 6 below) and financial bill assistance; and (v) centralized customer service within ComEd.

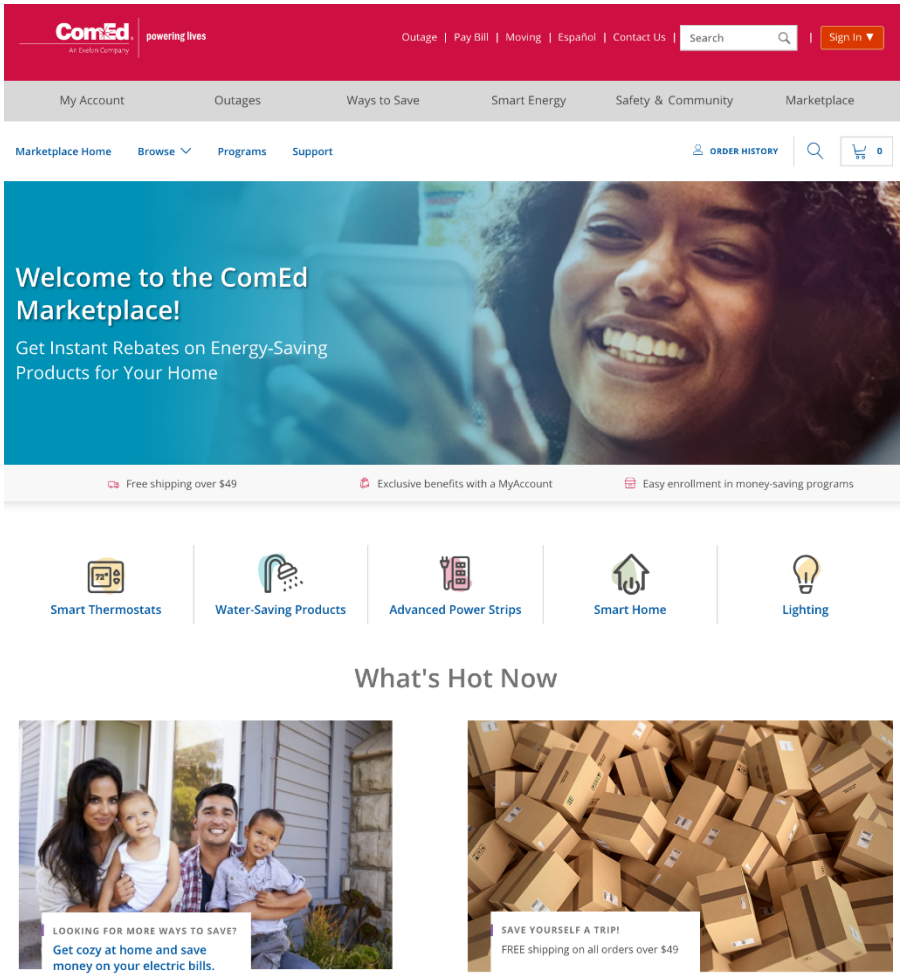


Figure 5: ComEd Energy Marketplace Homepage (comed.com/marketplace)

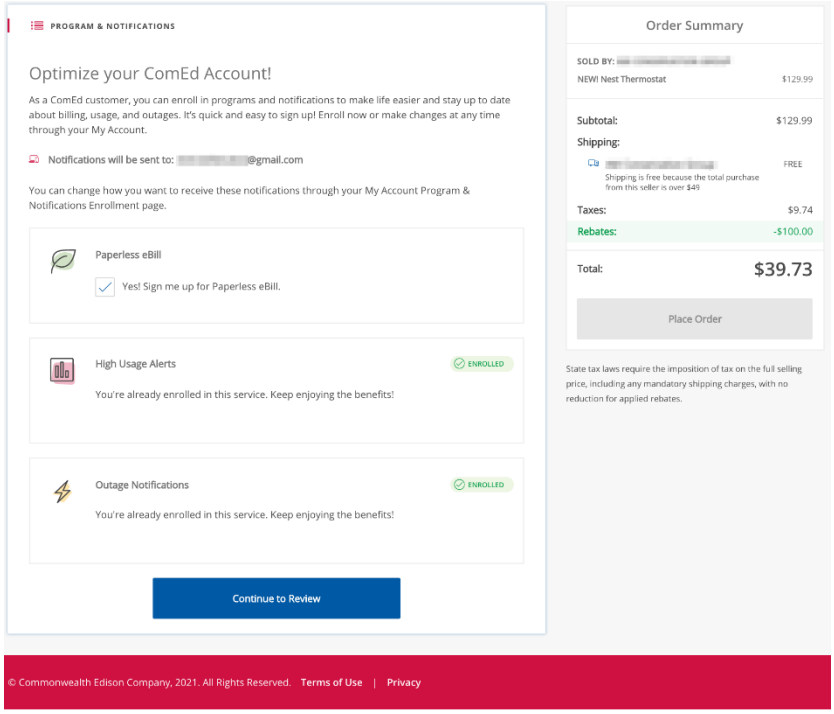


Figure 6: Personalized one-click enrollment in ComEd programs

2. Collaborate and Enable

a. If This Then That ("IFTTT")

ComEd is one of the first utilities to leverage the If This Then That ("IFTTT") platform for demand response and dynamic pricing programs. IFTTT is a free Internet of Things ("IoT") platform where customers can subscribe to, share, and create custom applets capable of controlling a wide range of internet connected home devices like thermostats and smart plugs.

ComEd launched the Peak Time Savings ("PTS") and Hourly Pricing services on IFTTT in 2017. The service creates a "set it and forget it" experience for ComEd customers with connected home devices such as smart appliances and smart thermostats. Use cases for IFTTT applets include automatically pre-cooling a home before a demand response curtailment event, or automatically shutting-off lighting when electricity prices reach a customizable price threshold. Although customers can create their own applets, ComEd also provides pre-configured applets to help customers more conveniently participate in demand response events or respond to price signals.

More than 3,500 customers were signed up to use the ComEd PTS IFTTT applets in 2020, and to date, PTS applets have been triggered almost 35,000 times. The vast majority of users connect to the service using a smart thermostat (i.e. Ecobee or Nest) or use applets to receive a push notification or iOS reminder when a PTS event is announced.

For Hourly Pricing customers, IFTTT manipulates devices and sends notifications in response to hourly electricity prices. More than 2,700 Hourly Pricing customers were connected

to the Hourly Pricing IFTTT service in 2020, which has led to more than 3,660,000 Hourly Pricing applet transactions since 2017. The ComEd Hourly Pricing IFTTT Channel has published 9 applets for customers, most of which are used to adjust Honeywell or Ecobee thermostats when the hourly price exceeds a high threshold.

Beginning in September of 2019, Google discontinued the Works with Nest program, which had previously allowed for integrations with Nest products via IFTTT. For existing subscribers to applets using the Nest service, Google has committed to preserving functionality for those who do not migrate their Nest account to a Google account and do not disconnect their Nest product from IFTTT. At the end of 2020, the Nest service remained one of the top 3 services in use for both PTS participants and HP participants, with almost 130 users subscribed to the PTS applet that sets the thermostat temperature higher at the start of a PTS event, and 172 users subscribed to the HP applet that sets the Nest Thermostat for a High Price. New connected users continue to trickle in even in early 2021.

b. Smart Meter Connected Devices ("SMCD")

ComEd continues to facilitate customer access to near-real-time electricity usage information directly from the smart meter along with estimated electricity cost information by identifying compatible retail in-home wireless smart devices. ComEd launched the pilot in December 2014 as the SMCD Service.[2] As of December 2020, the SMCD Service has 1,275 registered devices. With immediate access to information about their electricity use, customers can make changes to help manage their electric bills.

In 2019, the ComEd SMCD team completed the launch of an automated enrollment system. Customers are now able to enroll their devices with the SMCD service without any manual intervention from the ComEd SMCD team. This gives the participants the ability to enroll their devices 24/7.

To participate, a customer must own a device that has been tested as compatible with ComEd's smart meters and register the device through their online ComEd account. Once the device has been successfully registered, it can wirelessly receive data from the smart meter at the customer's residence or business. The types of devices that qualify for the service include:

- In-Home Displays ("IHDs"): IHDs have the ability to display electricity usage and estimated cost information available from smart meters. This information appears on the digital display of the device shortly after electricity is used.

- Energate HolHom (Smart Thermostat). More than just a thermostat, these smart devices feature Wi-Fi connectivity to the internet. Features for these devices may include programmability to adjust temperature, display of energy usage, interactive mobile apps, web portal and live weather updates.

[2] *See Commonwealth Edison Co.*, ICC Docket No. 13-0495, Order (January 28, 2014) at 81.

The following SMCDs have been tested by ComEd to be compatible with and receive electricity usage and estimated electricity cost information from ComEd smart meters: Rainforest Automation's EMU-2, the AzTech IHD, and the Energate HolHom Smart Thermostat.

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Figure 7: Pictured from left to right – Rainforest Automation EMU-2 and the AzTech IHD

c. Smart Streetlights

ComEd has been working to establish opportunities to offer smart LED streetlight service to communities within its service territory. Smart LED streetlights bring together highly efficient LED lighting technology with powerful smart-grid enabled lighting controls. These smart controls allow for remote monitoring and control of streetlights through central management software systems. Individually, the LED lights and the smart controls are great technological innovations, but their impacts are greatest when brought together as a system. For example, the LED lights and their control system contribute to energy efficiency, can quickly notify ComEd of maintenance needs, and can be controlled to brighten in emergencies.

In order to remotely monitor and control each streetlight individually, ComEd evaluated ways to leverage the wireless mesh communications network built as part of ComEd's smart meter deployment. The ubiquitous nature of the network allows ComEd to reach all areas within its territory and extract additional value from the smart grid investments ComEd is already making.

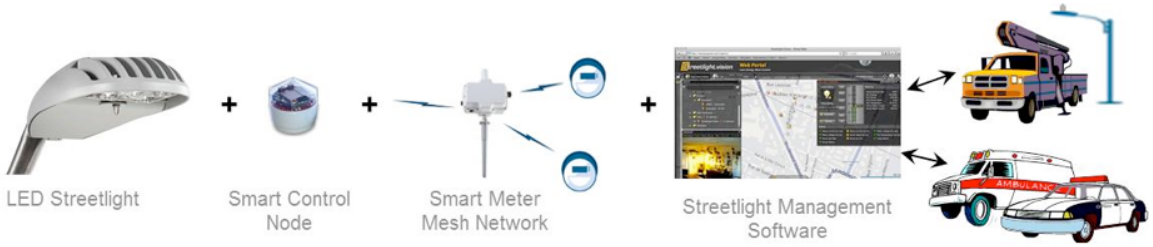


Figure 8: Overview of Smart Streetlight System

Through the Proof of Concept ("POC") deployment, monitoring of operations, identifying and triaging of issues, and developing system enhancements with vendors, ComEd developed a thorough understanding of the technical capabilities of this technology. ComEd also evaluated customer preferences with respect to this potential new service offering. The results of

the POC are being used to make informed decisions about the potential to deploy the technology on a broader scale.

In 2018, ComEd began its smart streetlight deployment program with a true up of streetlight assets by commissioning a mobile deployment application for crews to complement the management software. In addition, more than 24,000 smart streetlights were installed.

In 2019, ComEd completed Year 2 of its smart streetlight deployment. ComEd installed over 21,000 new smart LED streetlights and upgraded over 8,400 existing LED lights with smart capabilities. The program impacted 78 municipalities throughout the ComEd territory. Upon the installation, the municipalities and townships have updated streetlight records, reduced lighting outages, improved maintenance support, and savings on their utility bill.

In 2020, ComEd completed Year 3 of its smart streetlight deployment. ComEd installed over 24,000 new smart LED streetlights and upgraded over 8,700 existing LED lights with smart capabilities. The program impacted 58 municipalities throughout the ComEd territory.

The established working groups, business transformation, system integrations, device rollout and advanced metering infrastructure operations, are still engaged to monitor the deployment and ensure that the operations in place remain sustainable.

3. Deliver

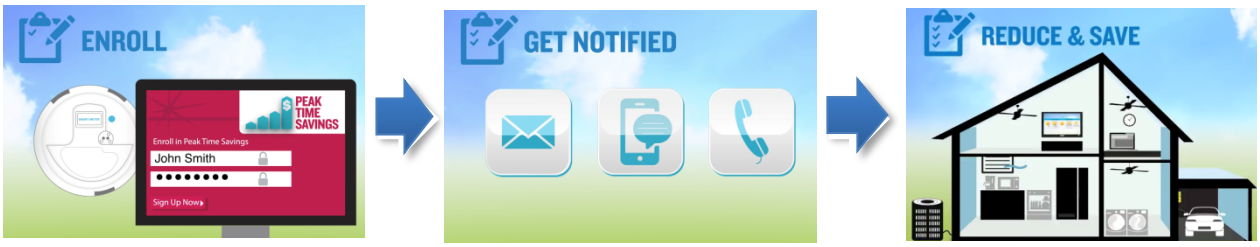
a. Peak Time Savings ("PTS")

In October 2014, ComEd launched enrollment for Peak Time Savings ("PTS")[3] – an opt-in demand response program offered to all residential customers with smart meters. PTS provides residential customers the opportunity to earn bill credits for reducing electricity use during specified curtailment periods referred to as PTS Hours. There is no cost to enroll, no requirement to own specific home energy management technologies, and no penalty for not reducing energy use. During PTS Hours, participants earn $1 for every kilowatt hour (kWh) of electricity they reduce compared to their baseline usage. Credits earned during PTS Hours are applied to the customer's next monthly energy bill. ComEd funds PTS bill credits by participating in PJM's capacity market as a curtailment service provider. Any surplus or deficit in funding for bill credits is carried into the next PTS season so that all PJM auction revenue is ultimately paid to PTS participants.

The program is the first-of-its-kind to be offered to customers in the Midwest and demonstrates to customers a direct benefit of ComEd's smart grid investments. Furthermore, managing peak loads in the ComEd service territory can help reduce the need for additional generation capacity, mitigate greenhouse gas ("GHG") emissions, and support grid reliability.

How Customers with a Smart Meter participate in Peak Time Savings:

[3] The Commission approved ComEd's proposed Rider PTR – Peak Time Rebate ("Rider PTR"), marketed to customers as the "Peak Time Savings" or "PTS" program, in ICC Docket No. 12-0484.



Starting in 2020, the PTS season runs from June 1st through October 31st and May of the following year. On the morning of a PTS Hours event or at least 30 minutes prior to the start, PTS customers are sent notifications by autodialed phone call, email, mobile push notifications[4], and/or text message. One or two days after the event, on weekdays only, participants are provided with feedback on the amount of energy they saved and the credit they earned. Customers are able to update how they receive PTS notifications at any time through the PTS webpage or through their ComEd online account via the My Alerts & Notifications menu option under My Profile. ComEd's social media team also announces event hours on Facebook, Instagram and Twitter to drive additional awareness.

[4] This functionality was new in 2020

Pre-Event Notifications:

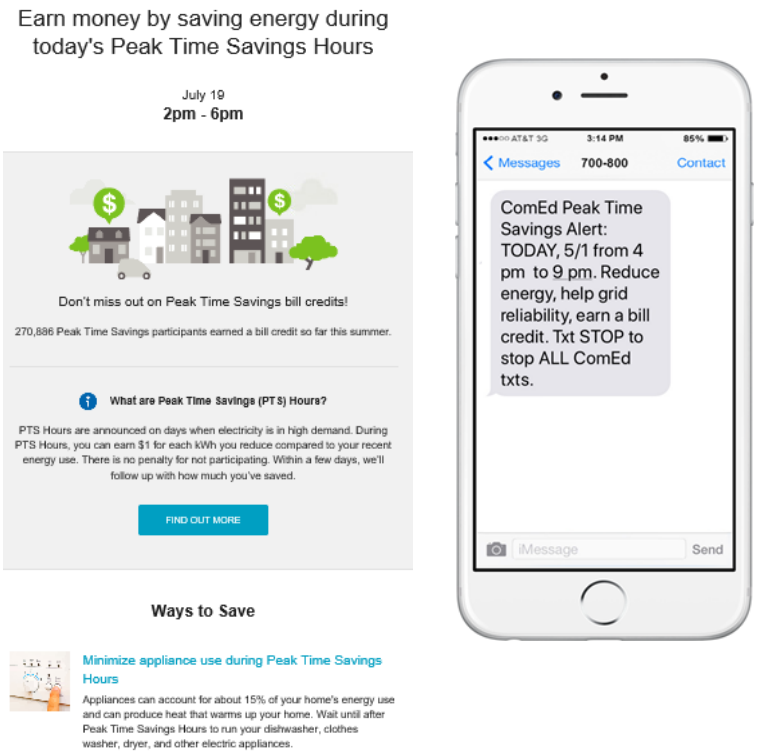


Figure 9: Pre-Event notifications are delivered by phone call, email, MPN, and/or text. In addition to PTS event start and end times, email notifications provide customers with personalized tips to reduce electricity usage during PTS Events.

Post-Event Notifications:

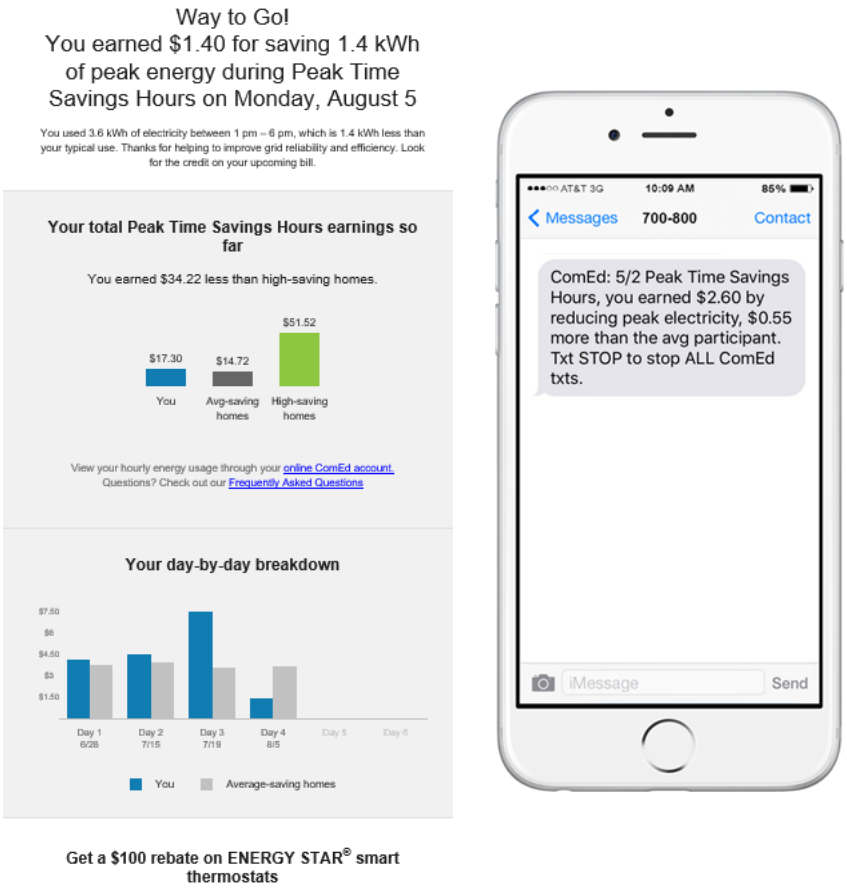


Figure 10: Post-event notifications provide customers with feedback on their PTS event performance to reinforce energy-saving actions and help encourage future participation.

Building on proven marketing tactics from previous years, nearly 22,000 customers enrolled in response to a direct mail and email marketing campaign in the spring of 2020. Over the 2020 season, 298,000 customers were enrolled during at least one PTS Hours event.

Through PJM's Base Residual Auction ("BRA") held in 2017, and the three subsequent Incremental Auctions, ComEd secured $1.96 million to fund PTS bill credits in the 2020 season. The reduction in auction funds compared to prior years was due to the introduction of the capacity performance product type into the market, which limited the amount of summer-only capacity that could clear in the BRA by linking it to the same amount of MWs cleared for winter-only capacity. ComEd expects more winter-only capacity to clear for future Delivery Years, and thus PJM auction funds should increase.

ComEd announced a total of five PTS Hours events, each of which were 4 to 6 hours in duration. Participating customers earned a total of $5.3 million in PTS bill credits. Fifty percent of participants received between $7.90 and $23.80 on their summer bills and the median season

credit earned was $14.40. Since 2015, PTS participants have earned more than $15.5 million in bill credits.

In conjunction with the Citizens Utility Board ("CUB") and the Environmental Defense Fund ("EDF"), ComEd has developed a metric to measure the GHG emission reductions associated with smart meters. An estimate of the GHG emission reductions attributed to PTS is included in Attachment 1, Metric #9.

In 2020, ComEd filed the annual evaluation for the Peak Time Savings program year 2019[5]. The evaluation assessed the program design, customer segments, load impacts, customer credits, and PJM revenues. The analysis estimated an average of 6.23% reduction in electric load during 2019 PTS event hours. The approximately 290,000 customers enrolled in each event contributed to an estimated average curtailment of 35.8 MW per event hour. Considering updated values for load impacts and projected PJM revenues, the program is expected to be cost effective over a forward looking 15-year period.

As required by Rider PTR, ComEd accompanied the 2018 annual report with a petition that the ICC initiate a proceeding to decide if the rider should remain in effect, be modified, or be terminated. ComEd submitted an Agreed Draft Proposed Order on February 26, 2020 to continue Rider PTR with no modifications until its statutory sunset date of 12/31/2022. The final order was issued April 1, 2020 and determined that ComEd's PTS Program and Rider PTR remain in effect with no modification during the remaining statutory period.

Following direction from FERC, PJM put all capacity auction activities for the 2022/23 deliver year on hold until a ruling was made on dockets EL16-49-000 and EL18-178-000 regarding minimum offer prices. As a result, the Base Residual Auction originally scheduled for May 2019 was postponed to a yet to be determined date. This auction will most likely take place in May or June of 2021. Resource planning, however, was permitted to continue as scheduled for the 2020/21 and 2021/22 delivery years; PTS cleared an additional 1.7 MW of capacity for the 2020/21 delivery year through the 2nd incremental auction, and 11.3 MW of capacity through the 3rd incremental auction.

b. Bring Your Own Thermostat ("BYOT")

Beginning in the summer of 2014, ComEd partnered with Nest Labs, Inc. in offering up to $140 in rebates for each customer who purchased a Nest Learning Thermostat™ and participated in ComEd's Smart Ideas Central Air Conditioning (AC) Cycling Pilot program.[6] The 2014 Nest Pilot program was expanded to allow customers with Nest or Xfinity thermostats to receive a $40 incentive for participation from June 1st through September 30th, 2015. In

[5] See "Commonwealth Edison Company's Peak Time Savings Program Annual Report for the Year Ending May 31, 2020" in ICC Docket No. 12-0484.

[6] The Commission allowed this program to become effective when it granted ComEd's Petition for Special Permission to allow revisions to Rider AC – Residential Air Conditioner Load Cycling Program, ILL. C. C. No. 10, 1st Revised Sheet No. 335, et seq. ("Rider AC") to become effective on less than 45 days' notice by order dated March 6, 2014, in ICC Docket No. 14-0120.

2015, 2,988 customers signed up for the summer's AC Cycling Promotion and demand response pilot, and 316 customers signed up for Xfinity Home.

Smart thermostats moved from a pilot to a permanent option under AC Cycling on May 9, 2016 when the ICC approved a tariff change to Rider AC. Customers participating under the smart thermostat option using the Nest Smart Thermostat can receive an incentive of up to $40 per summer from ComEd. Nest's brand name for its AC Cycling Smart Thermostat Option is Rush Hour Rewards.

The AC Cycling program has initiated the following demand response events under the Smart Thermostat Option (i.e. Nest Thermostat) since the summer of 2016:

- 8/19/2016 from 1 to 4 PM Central Time
- 9/15/2017 from 1 to 4 PM Central Time
- 9/17/2018 from 2 to 5 PM Central Time
- 8/07/2019 from 2 to 3 PM Central Time
- 9/03/2020 from 2 to 3 PM Central Time

There were 37,912 customers are enrolled in the AC Cycling Smart Thermostat Option at the end of the 2020 program season.

c. Hourly Pricing and Bill Protection Pilot

ComEd residential customers whose homes have smart meters have a choice between three supply electricity rates from ComEd: the standard fixed-price rate, Hourly Pricing, and Time-of-Day Pricing rates available through the RTOU Pilot. Customers are defaulted onto ComEd's standard fixed-price rate where the price of electricity is the same irrespective of when they consume it. In contrast, customers have the option to enroll in ComEd's Hourly Pricing and purchase electricity at prices that vary each hour based on the wholesale market price of electricity. Customers selecting Hourly Pricing can save money versus the fixed-price rate by shifting their electricity consumption away from high-priced periods, like summer afternoons, to lower-priced periods, such as mornings, nights and weekends.

ComEd's Hourly Pricing program concluded 2020 with a record number of participants, more than 37,000. Additionally, since its debut in 2007, Hourly Pricing has delivered more than $27 million in energy supply savings.

The program's growth of more than 7% in 2020 has been attributed to two main factors: savvy target marketing and an increasing awareness of the Hourly Pricing program. Elevate Energy, the program administrators for Hourly Pricing, found that targeting PTS participants proved to be a particularly successful marketing tactic. Elevate Energy continued to target this segment of engaged customers through email and direct mail channels.

The ComEd Connects newsletter features and the ComEd Homepage Carousel features were additional marketing initiatives that also contributed to the increase in program awareness and participation. Additionally, the Bill Protection pilot successfully targeted customers who would have saved money on Hourly Pricing the previous year. This pilot relied on a very detailed, months-long analysis of ComEd customer billing data to identify and randomly select 30,000 customers who would have saved at least 16% on their energy supply costs on Hourly Pricing during a 12-month period spanning 2018 and 2019. Selected customers received a "shadow bill" direct mailer, which showed participants what they paid on ComEd's standard fixed-price rate, what they would have paid on Hourly Pricing, and how much they would have saved on the hourly rate. Two versions of the mailer were created: the "Shadow Bill" and the "Shadow Bill with Risk-Free Offer." The latter was sent to 10,000 of the customers selected and offered up to 700 customers a risk-free year on Hourly Pricing during which customers are guaranteed to not pay more than ComEd's standard fixed-price rate.

The main objective of the pilot was to test the impact of the offer. Market research has previously shown that the risk of losing money is a barrier to enrollment, and it was hypothesized that those offered a risk-free year would be more likely to enroll. The Bill Protection Pilot drove a total of 701 enrollments with enrollment rates of 2.3% for the Shadow Bill and 2.5% for the Shadow Bill with Risk-Free Offer. A follow-up survey was sent to all 30,000 customers who received the Bill Protection direct mailer. Of those who received the risk-free offer and responded to the survey, about two-thirds said they would not have enrolled in Hourly Pricing without the offer. Key reasons for not enrolling in Hourly Pricing were concerns about not saving money, satisfaction with the current rate, potential savings were not compelling enough, and general uncertainty around the COVID-19 pandemic and its impacts on energy use.

d. Capacity Guard Alert

Capacity charges are levied by PJM based upon each ComEd customer and reflect the costs to have adequate generation resources to ensure that the demand for electricity can be met at all times. Hourly Pricing's capacity charges are based on the customer's average electricity use during the five highest ComEd system demand hours and the five highest PJM (ComEd's regional transmission organization) system demand hours from the previous summer. These peak system hours are referred to as coincident peak hours, or "CP hours." An Hourly Pricing customer's Capacity Charge is based on these CP hours and they can significantly impact the participant's overall bill amount.

In 2017, realizing an opportunity to leverage data analytics to help customers manage, and potentially reduce, their capacity charges, ComEd debuted a sophisticated algorithm designed to predict CP hours the day before they occur. Internally, this algorithm was given the moniker, "Capacity Guard" and was offered as part of the program's Hourly Pricing Alerts

package. For the third summer in a row, this alert provided customers with day-ahead notice of a possible coincident peak hour at the start of the summer (June 1) and remained active through the end of September. Because the alert gave participants day-ahead notification, customers could more effectively plan to lower their energy usage during the few hours that the alert specified and thereby manage – or even lower – their resultant calculated Capacity Charge for the following summer.

In 2020, more than 90 percent of Hourly Pricing participants were receiving this alert along with their real-time, high-price alerts.

The CP Hour predictive algorithm correctly predicted four of the 10 CP hours identified for the summer of 2021. The algorithm predicted four additional dates but did not match the CP hours by a difference of one hour. Therefore, if the algorithm predicted extended event times, eight of the 10 CP hours would have correctly been predicted. An analysis of how much participants lowered their capacity charges as a result is not available as of this writing.

e. Residential Time of Use Pricing Pilot ("RTOUPP"): Time-of-Day Pricing

In October 2019, the ICC approved a four-year Residential Time of Use Pricing Pilot. The pilot sought to determine if Time-of-Use ("TOU") pricing:

(a) encouraged less electricity usage, or a shift in electricity usage, from periods when electricity prices are typically higher in the hourly wholesale electricity market,

(b) encouraged less electricity use during the periods when the distribution and transmission systems incur their peak demands,

(c) encouraged electric vehicle owners to charge their electric vehicles in the early morning hours when hourly wholesale electricity prices are typically lower, and

(d) increased customers' satisfaction with their electric service with a new supply rate option.

This new TOU rate launched in June 2020 as Time-of-Day Pricing and utilized three fixed pricing periods or "dayparts" across each 24-hour day. The dayparts, their time windows and their energy prices[7] were as follows:

[7] These energy prices are subject to small adjustments throughout the year; prices shown reflect Time-of-Day Pricing energy supply costs for the period 6/1/20 – 12/31/20.

Daypart	Window	$/kWh (Summer)	$/kWh (Nonsummer)
Super Peak	2 pm – 7 pm	$0.13902	$0.12867
Peak	6 am – 2 pm 7 pm – 10 pm	$0.02926	$0.02710
Off-Peak	10 pm – 6 am	$0.01700	$0.01779

At the conclusion of the year, 974 participants spent a cumulative $8,528 more on energy supply versus what they would have spent if they had stayed on ComEd's default fixed-price rate; while 652 participants achieved the opposite and saved a cumulative $5,478 while on the pilot. Note that some of these participants are no longer taking service under the pilot.

The Company expects more participants will experience savings beginning in January 2021 due to a reduction in the supply prices that were updated using a more recent 12-month snapshot of historical hourly prices and ~1,200 actual participant's historical hourly profiles and capacity costs. It is not known if that savings potential will continue starting in June 2021 when both the fixed price and time of day prices will both be updated again for the summer. The pilot reached its participant cap in December 2020, and closed to new enrollments. Customer prospects were told that applications will be accepted as participants leave the pilot due to closed or finaled accounts or unenrollment requests. They were also advised of Hourly Pricing as a possible alternative.

f. Energy Efficiency Emerging Technologies Pilots

In early 2020, the Emerging Technologies team for the ComEd Energy Efficiency Program completed the Save and Share™ Mobile App pilot. Unfortunately, the pilot ultimately garnered only a low level of participation. Several barriers were identified including low interest in the overall concept among the target population, the need for a full year of data on an account prior to participating, and the need for account information to sign up for the app. Several sessions were held with the project team to share and discuss these lessons learned and record them for future app-based, AMI-based initiatives.

The Uplight Data Analytics project also concluded in early 2020. This project allowed various energy efficiency teams to gain a deeper understanding of the implications for using AMI data to measure actual energy savings as compared to typical deemed estimates. Lessons learned included the amount of time and resources needed to prepare and transfer data, the shortcomings of this approach when measuring many common energy efficiency inventions, but also where and when this type of approach may present worthwhile use cases. The team is currently exploring these new use cases and considering them for future testing.

The team also launched a new pilot concept in 2020. Working in partnership with energy efficiency vendor Power TakeOff, this pilot is testing an enhanced version of the Virtual Commissioning™ (VCx™) concept. VCx remotely identifies and verifies operational improvements for commercial and public sector customers using 30-minute AMI usage data. For

this pilot, real-time energy data reading capabilities will be installed in customer facilities to test whether increased and deeper energy savings opportunities can be realized by Power TakeOff and the customers. Chicago Public Schools has agreed to provide 50–60 locations to test one-minute AMI usage data with customer-facing energy dashboards. These tests will provide ComEd with improved data for helping the schools identify energy-saving opportunities; they will also provide the schools access to useful alerts and performance information. Site selection was conducted to capture locations with a wide range of characteristics, which will enable results to be applied broadly across other commercial and public sector customers.

Information about these and other energy efficiency Emerging Technologies projects can be found on the website www.ComEd.com/EmergingTech.

C. 2021 Planned Activities

ComEd plans to use lessons learned in 2020 to improve in-market programs and services and to expand successful initiatives. In addition, ComEd will continue its iterative process of introducing, evaluating, and testing new customer applications of AMI to stay abreast of industry developments.

1. Continuing Programs and Services

    a. Energy Management Tools, Data Services, Marketplace, IFTTT, SMCD

These customer programs and services are expected to continue as-is in 2021. The BYOT program was sunset at the end of 2020 due to changes with the Google Nest offering.

    b. Digital Solar Toolkit

Building off community solar education tools made available to customers in 2019, ComEd plans to pursue additional ways to support the growth of community solar.

    c. Peak Time Savings (PTS)

With the completion of the mass deployment of smart meters, ComEd is shifting focus from the rapid growth of PTS to managing a slower-growing, mature program with high customer engagement and satisfaction. One component of this transition is to explore changes to the program recruitment that may help lower customer acquisition cost and increase overall cost effectiveness. Another component is gauging customer interest in participating in PTS as a way to contribute to a clean energy future. To provide direction on how to make this transition, ComEd in 2020 tested targeting customers with high peak load reduction potential for enrollment and communicating the environmental benefits of peak load reduction to participants. The results of the high PLC enrollment target campaign will be analyzed in the 2020 Annual Evaluation authored by Nexant. In 2021, ComEd will continue targeting high PLC customers during the spring enrollment campaign. Also in 2021, ComEd plans to target LMI

customers for enrollment in the program, and is creating an LMI notification track that will feature Financial Assistance programs at ComEd.

Beginning in the 2021 season, ComEd is planning to implement an enhancement that will allow PTS participants to link their ComEd accounts to their IFTTT accounts to more seamlessly manage their energy use during PTS event hours. Through surplus balance carried over from 2020 and expected capacity market revenue, ComEd projects that $4.7 million will be available to fund bill credits in the 2021 PTS season. To distribute this revenue, ComEd is aiming to announce four to six events and reach a target of 25 PTS Hours, contingent on suitable weather and system conditions.

d. Capacity Guard Alert

Elevate Energy and ComEd will be considering additional customer communications to help improve participants' understanding of capacity charges and act upon this portion of the Hourly Pricing Alerts package.

e. Smart Streetlights

Smart streetlight deployments are planned to continue into the fourth year of the program. The scope is to complete 24,000 Smart LED streetlight installations and upgrade an additional 2,000 existing LED lights with smart capabilities. The current plan is scheduled to begin in January 2021 and will impact an estimated 178 municipalities territory wide.

f. Hourly Pricing

The Hourly Pricing Bill Protection Pilot launched in May 2020. The pilot identified fixed-price rate ComEd customers who would have saved on Hourly Pricing. A total of 30,000 prospective Hourly Pricing participants received a direct mail campaign that included a shadow bill analysis. A test group consisting of 10,000 prospects received a "risk-free guarantee" letter offer with a first-year guarantee of savings. After the first year, risk-free guarantee participants who paid more on Hourly Pricing than they would have on the fixed-price rate will be refunded the difference and returned to the fixed-price rate. The "risk-free guarantee" offer will be compared to the no-guarantee-of-savings control group to determine the offer's effectiveness. If this offer is deemed successful in increasing enrollments, while staying within acceptable financial costs and risks, ComEd may file changes to make it a permanent feature of the program.

In 2021, Elevate Energy plans to launch highly targeted marketing campaigns which would include a shadow bill savings analysis to new "good fit" segments, like electric vehicle owners and residential space-heat customers. Additionally, Elevate will continue to cross-promote Hourly Pricing within other ComEd channels, such as ComEd Marketplace and Peak Time Savings Post-Event savings. email communications.

2. Areas of Further Exploration

a. Innovation Lab

ComEd plans to launch new features for customers using the IFTTT channel for ComEd in 2021. This includes the ability for customers to link their ComEd.com account with their IFTTT account for more personalized triggers as well as the addition of new ways to connect and reducing the effort required to be enabled on the platform. The ability to trigger based on carbon thresholds will also be added to allow for customers to shift their usage based on the intensity of carbon at any given time. Finally, the Innovation Lab will be assessing reporting to give customers additional insight on their effectiveness of using automated responses to lower their carbon footprint.

IV. Customer Outreach and Education

In 2020, ComEd continued outreach and education efforts in support of tools and programs enabled by smart meters and providing customers with financial assistance information.

(1) delivering communications to provide customers with awareness, information and education about how to take advantage of online energy-management tools and programs;

(2) promoting ComEd's CARE financial-assistance program designed to help eligible customers pay their energy bills.

Although the smart meter deployment has been completed; ComEd will continue to support, educate and engage all of its customers, including those who do not currently have a smart meter installed.

Outreach and education efforts planned for 2021 include:

(1) continued focus on general education to provide customers with information about tools and programs enabled by smart meters;

(2) continued use of messages that educate customers about energy-savings tips, the ComEd EE Program and financial assistance information;

(3) continued promotion of online energy-management and savings tools accessible through MyAccount.

The accomplishments achieved in 2020 and the plans for 2021 are described in further detail in this chapter.

A. 2020 Activities and Accomplishments

1. Customer Outreach and Education

As previously noted, customer outreach and education efforts were delivered in support of encouraging customers to enroll in and utilize tools and programs enabled and available through smart meter technology.

2. Customer Education and Awareness

Throughout 2020, ComEd continued to provide customers with information to build awareness and education around energy management, and smart meter benefits. In addition, ComEd communicated specific actions that all customers can take to better manage their energy use. Channels for such information and education included the following:

Community Events & Outreach:

As AMI deployment was completed, ComEd participated in community events to educate customers about energy management and financial assistance programs. To do so, ComEd utilized direct interactions, brochures, and educational kiosks. Customers received information about online energy-management tools, such as High-Usage Alerts and Weekly Usage Reports. They also received information about programs such as PTS and Hourly Pricing, which are designed to help customers better manage their energy use.

Peak Time Savings Campaign:

In 2020, ComEd initiated multiple marketing campaigns in spring and fall to promote enrollment in its PTS program. The spring campaign involved direct mail followed up with a second touch email to customers, resulting in 19,704 new enrollees. Additional marketing tactics yielded an additional 7,278 new enrollees. In fall, PTS was offered to AC Cycling customers dues to the sunset of the AC Cycling Nest Thermostat program garnering 6,335 PTS enrollees for a grand total of 33,317 PTS enrollees in 2020.

PTS Marketing Campaigns: In March, ComEd launched a marketing blitz to 425,018 residential customers who were divided into four separate groups:

- Movers: Customers who were previously enrolled in PTS, but de-enrolled due to moving as of 1/1/19 or after.
- Hourly Pricing: Customers currently enrolled in Hourly Pricing.
- Segments: Customers most likely to enroll in PTS based on their segmentation attributes.
- De-Enrolled: Customers that de-enrolled from PTS in 2017.

Distribution Date	Customer group	Total Sent	Response Rate	Total Responses
March 2020	Letter to customers who formerly enrolled in PTS but de-enrolled because they moved.	8,557	23.78%	2,035
March 2020	Letter to customers enrolled in Hourly Pricing.	6,017	9.66%	581
March 2020	Letter to customers most likely to enroll in PTS based on their segmentation attributes.	409,934	4.2%	17,077
March 2020	Letter to customers that de-enrolled from PTS in 2017	510	2.16%	11
November 2020	Letter & email sent to customers on AC Cycling Nest program.	34,301	17%	6,335
Total Customers		459,319	4.64%	26,039

Table 2: PTS Marketing Response Rate

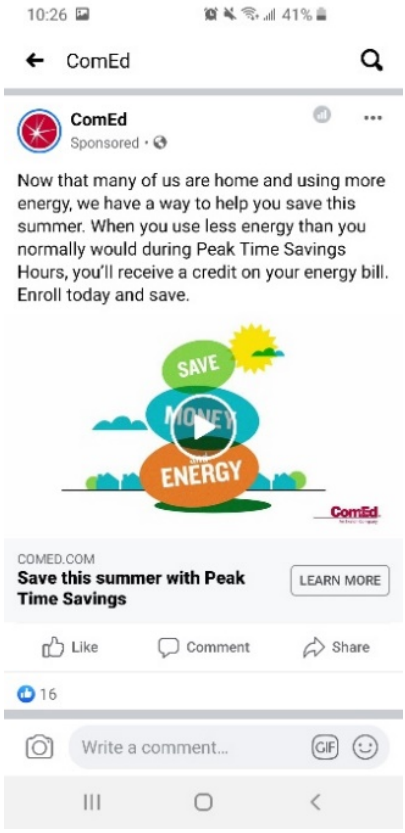


Figure 11: Social Media Posts

Figure 12: Smart Energy Hub at Chicago Training Center

ComEd's Smart Energy Hub: A Smart Energy Hub is located in each of ComEd's training centers in Rockford and Chicago's Bridgeport neighborhood. The Hub offers students of all ages opportunities to learn about smart meter-enabled tools and programs that can help customers manage energy bills and save money – as they learn about electricity, the smart grid, and energy management. With a curriculum based on Science, Technology, Engineering and Math ("STEM"), participants take field trips and learn through interactive exhibits and state-of-the-art technology that could not be duplicated in the classroom. In 2020, ComEd conducted 51 field trips to the Smart Energy Hub in Chicago and Rockford serving more than 1,400 participants. Smart Energy Hub field trips were paused starting March 11th, 2020 due to the pandemic. Shortly thereafter, ComEd developed a series of virtual STEM activities for teachers, parents, and students to further their STEM education online. The new webpage received over 52,000 unique pageviews and more than 16,000 link clicks on the PDF activities.

Online/Web presence and customer newsletter:

ComEd continued to utilize online channels to inform and educate customers about online energy-management tools and programs available to customers with smart meters, as well as ComEd.com/HomeSavings to educate customers about its EE Program.

ComEd also took advantage of social media – e.g., Facebook, Twitter – to promote ComEd festival appearances, locations, and dates to encourage customers to attend events to pose questions directly to ComEd representatives and learn more about energy-management programs. Additionally, the ComEd print newsletter reaches approximately 2.8 million

customers. Articles focus on online account resources and tools, ways for customers to save, and smart energy tips and programs, as examples.

Municipal Outreach:

ComEd conducted outreach to municipal leaders and aldermen to inform them about activities ComEd planned for their communities. In turn, they worked with municipal leaders and alderman to help share this information with their constituents. This municipal outreach included one-on-one meetings and attendance at city council meetings. ComEd used one-on-one meetings to update municipal leaders and aldermen on how residents can take advantage of online energy-management tools and programs, as well as Energy Efficiency and CARE financial assistance programs.

Community Partners:

In 2020, ComEd continued to collaborate with the Illinois Science and Energy Innovation Foundation ("ISEIF") to support grantee smart grid outreach and education activities. In June and December 2020, ISEIF provided grants to 21 organizations for outreach and education initiatives in the ComEd and Ameren territories.

With ISEIF in the lead, ComEd and Ameren shared program and initiative updates. ComEd participated in monthly meetings to help align utility and grantee educational activities, and to provide ISEIF with program updates, allowing grantees to leverage information utilities could provide them for their educational efforts.

3. Customer Messaging Efforts

Throughout the outreach and education activities mentioned above, customers received information describing how they can take advantage of smart meter-enabled tools and programs to help them manage energy use to save money on their bills, as well as ComEd's CARE financial-assistance program that is designed to assist eligible customers pay their energy bills.

- My Account: Online energy-management tools enable customers to compare their energy use against similarly sized homes in their areas and get personalized energy-saving tips. Customers with smart meters have access to enhanced online features, including High-Usage Alerts and Weekly Usage Reports, which can help customers manage their energy use. Approximately 1,133,658 ComEd customers have enrolled in High Usage Alerts and approximately 52,149 have enrolled in Weekly Usage Reports from their inceptions through Q4 2020.

- Peak Time Savings: This program, which began promotion in the fall of 2014 and launched in the summer of 2015, enables customers with smart meter to receive bill credits for using less electricity on select summer PTS Hours when electricity demand is typically high. Outreach efforts focused on promoting enrollment in PTS for the summer 2020 season, reminding customers of their enrollment and alerting enrolled customers of PTS events. Approximately 292K ComEd customers have enrolled from its inception through Q4 2020.

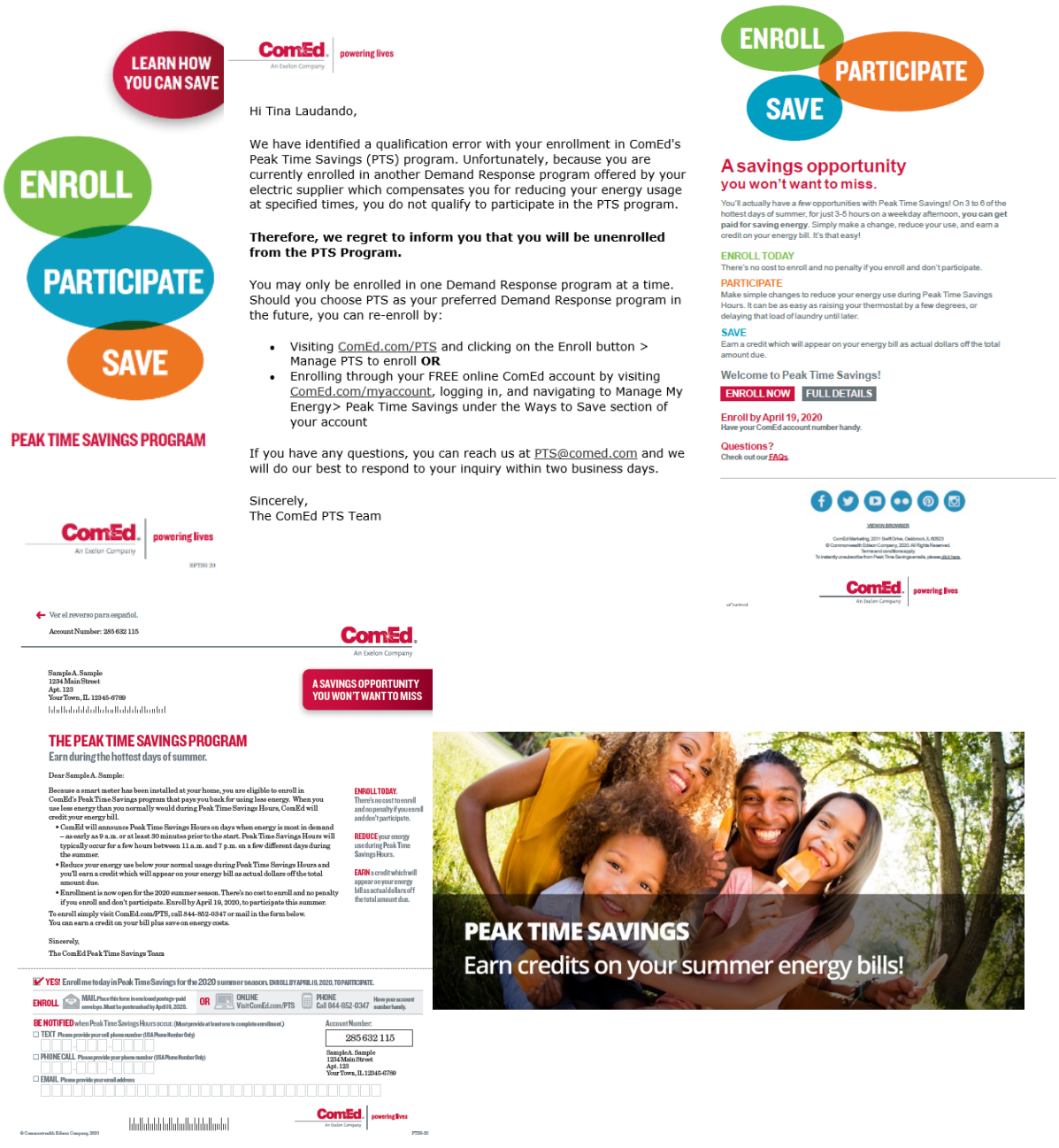


Figure 13: PTS Reminder Materials

- Energy Efficiency: The ComEd EE Program provides instant discounts, rebates, home and facility assessments, technical services and whole-building solutions to help customers reduce energy use. Residential, commercial, industrial, and public sector customers have saved more than $5.35 billion from its inception through Q4 2020.

- Hourly Pricing: This program gives customers the option to pay the hourly, market price for energy and save money by shifting energy use to off-peak times when the price is lower, such as nights and weekends. Approximately 37K ComEd customers have enrolled from its inception through Q4 2020.

4. AMI Deployment Communications

B. 2021 Planned Activities

1. Customer Education and Awareness

ComEd will continue engaging customers through education and awareness about energy management programs and services, enabled by smart meter technology. Outreach methods may include email, customer bill newsletters, social media, and community events. Each tactic is designed to build awareness while reaching customers with relevant energy-management and savings offers, based on the customer's interest, current program participation and past energy-management actions. Modifications to customer education and outreach tactics implemented in 2020 will continue to help ensure activities are conducted safely.

Peak Time Savings Campaign:

ComEd will apply lessons learned from its 2020 marketing campaign to improve overall marketing efforts in 2021. The goal is to continue to increase customer enrollment in ComEd's PTS program and enable customers to save, while improving preparedness and participation in PTS Hours.

a. For the enrollment phase of its marketing efforts, which take place from February through April, ComEd will continue to send letters promoting enrollment in PTS to customers who most recently received smart meters. ComEd will also seek out additional demographic profiles that match customers who are most likely to enroll in PTS and send letters to those customers. These efforts will be supported by social media posts on Twitter and Facebook that promote participation in PTS.

b. Throughout the summer season, customers enrolled in PTS will receive reminder letters, supported by social media posts, to help prepare enrolled customers for upcoming PTS Hours. These letters include information on tools and programs that can help customers participate in and save energy during PTS Hours. To further encourage participation in PTS, ComEd's letter campaign will be supported by emails to customers who have email addresses on file with ComEd.

MyAccount:

ComEd will continue to promote online energy-management tools and programs, such as High Usage Alerts, PTS, Hourly Pricing, Time of Day Pricing and Weekly Usage Reports, which are accessible and available in MyAccount. Messaging methods may include customer bill newsletters, emails, and social media.

ISEIF:

ComEd will continue to collaborate with the Illinois Science and Energy Innovation Foundation ("ISEIF") and support its new and existing grantees on outreach and education activities and projects.

V. METRICS AND MILESTONES

The following table contains the set of tracking measures the Commission approved for inclusion in the AMI Plan, including measures that ComEd agreed to report on via collaborative sessions with external stakeholders. The purpose of the table is to provide the required information and demonstrate the progress made during the prior calendar year regarding these measures.

As also noted in Chapter II.A of this Report, the data in the table below indicates that the overall AMI meter program deployment has been completed, on-time and within-budget.

ComEd mapped the measures below to the Revised AMI Plan to the extent possible given that all the measures in the Revised AMI Plan are not centrally located in one section. Additionally, multiple measures that are tracked relating to a single issue are all identified under one number consistent with the numbering in the June 2012 Order and the Revised AMI Plan. For example, there are four items tracked under Measure 1. For ease of identification, letters are used to differentiate these related items (e.g., 1a, 1b, 1c, and 1d are used). Further, Attachments 1-6 are specifically referenced when they can provide additional information regarding a certain measure.

2020 Tracking Metrics				
#	**Issue**	**Tracking Metrics Description**	**"Baseline Data" (2012 Data Unless Otherwise Indicated)**	**2020 Annual AMI Metrics Data**
1A	Customers enrolled in Peak Time Rebate, Real Time Pricing, and other dynamic/time variant prices	Residential Customers Number of customers on a time-variant or dynamic pricing tariff offered by ComEd. Expressed also as a percentage of customers in each delivery class.	The number of customers on a time-variant or dynamic pricing tariff offered by ComEd are as follows: Residential - Single: 8,473 (0.4%) Residential - Multi: 605 (0.1%) Residential - Single (Space Heat): 157 (0.5%) Residential - Multi (Space Heat): 155 (0.1%)	The number of customers on a time variant or dynamic pricing tariff offered by ComEd are as follows: Residential - Single: 28,917 (1.25%) Residential - Multi: 6,914 (0.57%) Residential - Single (Space Heat): 883 (2.48%) Residential - Multi (Space Heat): 2,115 (1.26%) Total Residential: 38,829 (1.04%)
1B	Customers enrolled in Peak Time Rebate, Real Time Pricing, and other dynamic/time variant prices	Residential Customers Number of customers served by retail electric suppliers for which the supplier has requested monthly Electronic Data Interchange delivery of interval data. Expressed also as a percentage of customers taking supply from a retail electric supplier in each delivery class.	The number of residential customers served by retail electric suppliers for which the supplier has requested monthly Electronic Data Interchange delivery of interval data is zero (0% of customers taking supply from a retail electric supplier in each delivery class).	Please reference Attachment 1.

2020 Tracking Metrics				
#	**Issue**	**Tracking Metrics Description**	**"Baseline Data" (2012 Data Unless Otherwise Indicated)**	**2020 Annual AMI Metrics Data**
1C	Customers enrolled in Peak Time Rebate, Real Time Pricing, and other dynamic/time variant prices	Small Commercial Customers Number of customers on a time-variant or dynamic pricing tariff offered by ComEd. Expressed also as a percentage of customers in the delivery class.	Zero Watt-Hour customers are taking hourly service from ComEd out of 91,275 total customers in the Watt-Hour class (0% of the class). 1,946 Small Load Delivery (0-100kW) customers are taking hourly service from ComEd out of 247,581 total customers in the Small class (0.78% of the delivery class).	Watt-Hour customers taking hourly service: 0 out of 63,675 (0%) Small Load Delivery (0-100kW) customers taking hourly service: 3,954 out of 282,460 (1.40%)
1D	Customers enrolled in Peak Time Rebate, Real Time Pricing, and other dynamic/time variant prices	Small Commercial Customers Number of customers served by retail electric suppliers for which the supplier has requested monthly Electronic Data interchange delivery of interval data. Expressed also as a percentage of customers taking supply from a retail electric supplier in the delivery class.	The number of small commercial customers served by retail electric suppliers for which the supplier has requested monthly Electronic Data interchange delivery of interval data is zero (0% of customers taking supply from a retail electric supplier in the delivery class).	Please reference Attachment 1.

2020 Tracking Metrics				
#	**Issue**	**Tracking Metrics Description**	**"Baseline Data" (2012 Data Unless Otherwise Indicated)**	**2020 Annual AMI Metrics Data**
2	Customer-side-of-the-meter devices sending or receiving grid related signals	Number of ComEd AMI meters with consumer devices registered to operate with the Home Area Network ("HAN") chip by tariffs under which customer receives delivery.	The data provided for 2013 in the 2014 AIPR was the number of meters that were set up to join the device. For 2014 and subsequent years, the AIPR Metric for HAN connected devices will be the number of "live" devices due to software advances, now that the upgraded UIQ has this data. ComEd will also use the 2014 data for the number of live devices as the baseline data going forward due to the change in methodology and results. Residential – Single: 1 Residential – Multi: 1 Residential – Single (w/Space Heat): 0 Residential – Multi (w/Space Heat): 2 Consumer devices registered through the Green Button Initiative is zero.	Number of "live" customer devices registered to operate with the HAN chip Residential – Single: 1,104 Residential – Multi: 130 Residential – Single (w/Space Heat): 26 Residential – Multi (w/Space Heat): 13 Small Commercial (0-100): 2 Total: 1,275 Consumer devices registered through the Green Button Initiative is zero.

2020 Tracking Metrics				
#	**Issue**	**Tracking Metrics Description**	**"Baseline Data" (2012 Data Unless Otherwise Indicated)**	**2020 Annual AMI Metrics Data**
3	AMI Meter failures	Number of advanced meter malfunctions where customer electric service is disrupted. (A "malfunction" is a malfunction that causes the meter to become inoperable but does not include cases of tampering, service panel and service entry equipment issues, house fires, etc.). ComEd will be able to determine which of the advanced meter malfunctions were due to voltage outside design criteria.	The number of advanced meter malfunctions where customer electric service is disrupted is zero.	The number of advanced meter malfunctions where customer electric service is disrupted is zero.
4	AMI Meters replaced before the end of their expected useful life	Number of ComEd advanced meters replaced annually before the end of their expected useful life, including reasons for replacement that include ComEd errors. ("Replaced" means a replacement due to a malfunction that causes the meter to become inoperable, including tampering.)	The number of ComEd advanced meters replaced annually before the end of their expected useful life, itemized by tamper versus non- tamper is as follows: 334 meters replaced before the end of their expected useful life due to tampering 164 meters replaced before the end of their expected useful life due to reasons other than tampering TOTAL: 498 meters replaced before the end of their expected useful life	The number of ComEd advanced meters replaced annually before the end of their expected useful life, itemized by tamper versus non- tamper is as follows: 7,453 meters replaced before the end of their expected useful life due to tampering 16,968 meters replaced before the end of their expected useful life due to reasons other than tampering TOTAL: 24,411 meters replaced before the end of their expected useful life in

			Note: ComEd worked with the external stakeholders, and it was determined that ComEd does not have the system capability to show detailed reason codes by type. If this is needed in the future, an IT enhancement would be required.	2020 Note: ComEd worked with the external stakeholders, and it was determined that ComEd does not have the system capability to show detailed reason codes by type. If this is needed in the future, an IT enhancement would be required.
5	Customers with net metering	Number of customers enrolled on Net Metering tariff and the total aggregate capacity of the group.	The number of unique customers enrolled on Net Metering tariff, Rider POGNM – Parallel Operation of Retail Customer Generating Facilities with Net Metering ("Rider POGNM"), as of December 31st 2012 are as follows: TOTAL: 381 unique customers (3.450 MW) 345 Residential 59 commercial The breakdown of generators by customer class and generator type are as follows: Residential (Photovoltaic Source): 284 (1.216 MW) Residential (Wind Source): 61 (0.245 MW)	The number of unique customers enrolled on Net Metering tariff, Rider POGNM – Parallel Operation of Retail Customer Generating Facilities with Net Metering ("Rider POGNM"), as of December 31st, 2020 are as follows: TOTAL: 17,428 unique customers (221.79 MW) 16,888 Residential 540 commercial The breakdown of generators by customer class and generator type are as follows: Residential (Photovoltaic Source): 16,855 (120.84 MW)

			Commercial (Photovoltaic Source): 49 (0.756 MW) Commercial (Wind Source): 10 (1.234 MW) Note: Some unique customers have both photovoltaic and wind source generators	Residential (Wind Source): 33 (0.19MW) Commercial (Photovoltaic Source): 528 (98.38 MW) Commercial (Wind Source): 12 (2.38 MW) Note: Some unique customers have both photovoltaic and wind source generators."
6A	Customer premises capable of receiving information from the grid	Number of installed AMI Meters as of the last day of the calendar year that communicate back to the head end system.	The number of installed AMI Meters as of the last day of the calendar year that communicates back to the head end system is 127,114.	The number of installed AMI Meters as of the last day of the calendar year that communicate back to the head end system is 4,258,619.
6B	Customer premises capable of receiving information from the grid	Number of installed AMI Meters as of the last day of the calendar year that communicate back to the head end system, divided by the total number of AMI meters installed.	The number of installed AMI Meters as of the last day of the calendar year that communicate back to the head end system, divided by the total number of AMI meters installed is 99.50%	The number of installed AMI Meters as of the last day of the calendar year that communicate back to the head end system, divided by the total number of AMI meters installed is 99.95%.
6C	Customer premises capable of receiving information from the grid	Number of customers who have accessed the web-based portal as of the last day of the calendar year as a percentage of customers with AMI Meters and as a percentage of ComEd customers in that delivery class.	Please reference Attachment 1.	Please reference Attachment 1.

6D	Customer premises capable of receiving information from the grid	Number of customers who can directly access their usage data as of the last day of the calendar year as a percentage of customers with AMI Meters and as a percentage of ComEd customers in that delivery class.	Please reference Attachment 1.	Please reference Attachment 1.
7	Peak load reductions enabled by demand response programs	Load impact in MW of peak load reduction from the summer peak due to AMI enabled, ComEd administered demand response programs such as the PTS program as a percentage of all demand response in ComEd's portfolio.	The load impact in MW of peak load reduction from the summer peak due to AMI enabled, ComEd administered demand response programs such as the PTS program as a percentage of all demand response in ComEd's portfolio is zero. The RRTP estimated peak load reduction is .5KW X 9,390 customers = 4,695 KW For the desired %, 4,695 KW is divided by 1,342.4 MW (the DR portfolios total peak load reduction potential): 4.695 MW / 1,342.2 MW = .35%	The estimated peak load reduction from PTS is 38.09 MW. For Single Family PTS Customers 0.16 kW X 215,867 customers = 34.54 MW For Multi Family PTS Customers 0.05 kW x 71,002 customers = 3.55 MW The RRTP estimated peak load reduction is 0.51 kW x 37,146 customers = 18.94 MW Total estimated peak load reduction from all ComEd AMI-enabled demand response programs is 57.03 MW. Peak Load Reduction potential of full DR portfolio = 1,016.7 MW AMI-enabled DR is 5.6% of ComEd's DR portfolio.

8	Customer Complaints	Number of formal ICC complaints, informal ICC complaints, and complaints escalated to ComEd's Customer Relations or Customer Experience departments related to AMI Meter deployment, broken down by type of complaint and resolution. AMI Meter deployment includes AMI Meter installation, functioning or accuracy of the AMI meter, and HAN device registration.	Formal ICC Complaints: One Smart Meter Refusal; Complaint remains in progress with resolution pending. Informal ICC Complaints: Four Smart Meter Refusals; ComEd has completed process for customer contact and resolution for each. Complaints escalated to ComEd AMI Customer Relations or Customer Experience departments: 52 smart meter refusals; ComEd has completed process for customer contact and resolution for 51; 1 remains open with clear next steps identified for resolution.	Final metric #8 was reported in the 2020 AIPR filed 4/1/20, copied below for reference: From 1/1/19 to 6/30/19: 49 informal ICC complaints 0 formal ICC complaints
9	Reduction in Greenhouse Gas Emissions enabled by smart grid	Reduction in Greenhouse Gas Emissions enabled by smart grid - ComEd worked collaboratively with CUB and EDF to operationalize this measure.	Please reference Attachment 1.	Please reference Attachment 1.
10A	Distributed generation projects	Number of locations and total MWs of customer owned distributed generation connected to the transmission or distribution system, broken down by connection to transmission and distribution system. ("Distributed generation" locations are those where customers take service under Rider POG – Parallel Operation of Retail Customer Generating Facilities ("Rider	Number of locations of customer owned distributed generation connected to the distribution system, broken down by connection to the distribution system is 104 locations. Total MWs of customer owned distributed generation connected to the distribution system, broken down by connection to the distribution system is 2.40959 MWs.	Number of locations of customer owned distributed generations connected to the distribution System in 2020 was 10,507. The Total Capacity of customer owned distributed generation connected to the distribution system in 2020 was 182.65 MW.

<table>
<tr>
<td></td>
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<td>POG") or Rider POGNM or successor tariffs.)</td>
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<table>
<tr><td>Year Completed</td><td colspan="2">2020</td></tr>
<tr><td>Energy Source</td><td>Application Count</td><td>Total Capacity (MW)</td></tr>
<tr><td>Solar</td><td>10,494</td><td>178.97</td></tr>
<tr><td>Storage</td><td>11</td><td>0.10</td></tr>
<tr><td>Natural Gas</td><td>1</td><td>3.2</td></tr>
<tr><td>Other</td><td>1</td><td>0.38</td></tr>
<tr><td>Total</td><td>10,507</td><td>182.65</td></tr>
</table>
</td>
</tr>
<tr>
<td>10B</td>
<td>Distributed generation projects</td>
<td>Number of locations and total MWs of customer owned distributed generation connected to the transmission or distribution system, broken down by connection to transmission and distribution system. ("Distributed generation" locations are those where customers take service under Rider POG or POG-NM or successor tariffs.)</td>
<td>Regarding customer owned generation connected to the transmission system, there were zero in 2012. There was generation added to the transmission system in 2012, but these generators were all wholesale generators in the business of generation. Based on ComEd's assumptions, these would not count as customer owned generation connected to the transmission system.</td>
<td>There were 9 (nine) customer owned distributed generation projects for a total of 540.4 MW that connected to ComEd's transmission system in 2020. Additionally, there were 3 (three) customer owned distributed generation projects for a total of 1436.1 MW in the PJM interconnection queue with an executed Interconnection Service Agreement that are planned for interconnection with the ComEd transmission system in 2021 or later.</td>
</tr>
<tr>
<td>11</td>
<td>Load served by distributed resources</td>
<td>Total sales of electricity to the grid from distributed generation (Rider POG or POG-NM customers) divided by zone energy plus distributed generation sales,</td>
<td>Rider POG sold back to the grid from Distributed Generation:

Rider POG Sales is 754,177 megawatt hours ("MWhrs") Residential Rider POG Sales is</td>
<td>RIDER POG sold back to the grid from Distributed Generation:</td>
</tr>
</table>

		with all data provided in sortable format.	100 MWhrs Non-Residential Rider POG Sales is 754,077 MWhrs TOTAL Zonal Energy plus Rider POG Sales is 102,367,754 MWhrs Percentage of Rider POG Sales to Total Zonal Energy is 0.74% The indicator of Distributed Generation that is behind the meter is going to be derived from the Annual Net Metering Report for Commonwealth Edison using the Average Capacity Factor data provided by EDF for 2013. Total Net Metering Solar Capacity = 1,460.14 kW * 18.5% Capacity Factor * 8760 Hours = 2,366 MWhrs Total Net Metering Wind Capacity = 1,462.31 kW * 18.5% Capacity Factor * 8760 Hours = 2,370 MWhrs Note: Further analysis and discussion will take place between ComEd and the external stakeholders to provide a fuller	Rider POG Sales is **253,863** MWhrs Residential Rider POG Sales is **397** MWhrs Non-Residential Rider POG Sales is **253,466** MWhrs TOTAL Zonal Energy plus Rider POG Sales is **93,240,256** MWhrs Percentage of Rider POG Sales to Total Zonal Energy is **0.27%** The indicator of Distributed Generation that is behind the meter is going to be derived from the Annual Net Metering Report for Commonwealth Edison using Average Capacity Factor data provided by EDF. Total Net Metering Solar Capacity = **218,045** kW * **18.5%** Capacity Factor * 8,760 Hours = **353,364** MWhrs Total Net Metering Wind Capacity = **2,572** kW * **18.5%** Capacity Factor * 8,760 Hours = **4,169** MWhrs Note: Further analysis and discussion will take place between ComEd and EDF to provide a fuller measure for future reports.

			measure for future reports.	
12	System load factor and load factor by customer class	Total annual consumption for AMI meters (including, separately, small commercial customers) divided by the average demand across all AMI meters over the 5 peak hours multiplied by 8760 hours by customer class.(ComEd will work collaboratively with CUB and EDF to establish a similar measure for all system load.)	Based on the AMI consumption data for 2012 and the 5 peak hours, the following results were calculated: Residential Load factor: 30.2% Commercial Load Factor: 50.5% Industrial Load Factor: 61.1% TOTAL Load Factor: 37.2%	Based on the AMI consumption data for 2020 and the 5 peak hours, the following results were calculated: Residential Load factor: 35.95% Commercial Load Factor: 66.17% Industrial Load Factor: 77.69% TOTAL Load Factor: 53.63%
13	Products with end-to-end interoperability certification	ComEd will conduct an annual survey through a third-party provider to evaluate how products are being introduced in the smart grid enabled marketplace.	In-depth interviews with industry participants on new product offerings of smart grid enabled products and secondary research will be conducted in 2013. This will be performed in lieu of a survey until the penetration of smart grid enabled products reaches a point that a survey produces meaningful data and becomes cost- effective. To date, no smart grid enabled products have been submitted for demonstration and evaluation through ComEd's Test Bed. Please reference Attachment 3 (2014 AIPR) for HAN Device Interoperability. ComEd will continue to work with	See Attachment 1 for the updated smart grid products and services industry assessment for 2020. See Attachment 2 for the 2020 HAN Device Interoperability report. This is the same report used in the 2020 AIPR. As of the time of this writing, there have been no updates.

			the external stakeholders to further evaluate how products are being introduced in the smart grid enabled marketplace.	
14	Network nodes and customer interfaces monitored in "real time"	Network nodes and customer interfaces monitored in "real time"	ComEd worked collaboratively with CUB and EDF to operationalize this measure, which yielded the following: Grid-side Network Nodes Measured as Total Number of DA Devices: 12kV DA = 2,125 and 34kV DA = 971 (DA devices) connected to the grid. Customer-side Network Nodes Measured as Total Number of Devices Registered to a Meter: 841 HAN devices for meters, though they are not actively "Monitored."	Grid-side livened Network Nodes measured as number of DA devices: 12kV Devices= 7,092 34kV Devices= 1,325 Customer Interfaces Monitored in"RealTime" (see metric #2)
15A	Grid connected energy storage interconnected to utility facilities at the transmission or distribution system level	Number of locations and total MWs of utility owned or operated energy storage interconnected to the transmission or distribution system as measured at storage device electricity output terminals.	The number of locations and total MWs of utility owned or operated energy storage interconnected to the **distribution** system as measured at storage device electricity output terminals is zero. ComEd has not installed any storage on either the transmission or distribution system in 2012, nor has any energy storage been certified, tested or deployed in the ComEd test bed.	ComEd did not install any utility owned energy storage unit on the distribution system in 2020. There were no customer owned energy storage projects that interconnected to the distribution system in 2020. There were no customer owned energy storage projects in the interconnection queue for connection to the ComEd distribution system with executed Interconnection Agreements for participation in the PJM wholesale market in 2020. There were no customer

			The storage installed on the transmission and distribution system that is part of the PJM wholesale market is 1.5 MW at one location, and it participates directly as a supply resource as part of a wind development for 2012. Please note: Concerning measuring the storage installed on the transmission or distribution system participating in PJM wholesale markets, there are limitations in obtaining the information for proprietary reasons. Storage assets directly participating in PJM markets will require interconnection agreements and ComEd will have the information to track if or when these types of supply resources enter the market. For behind-the-meter storage assets participating in the PJM through the demand response program, there is currently no requirement that PJM will share that information with ComEd. ComEd will only have knowledge of the customers that are participating in demand response, but not how customers are achieving load reductions. In terms of measuring	owned energy storage projects, in the interconnection queue for connection to the ComEd distribution system for participation in the PJM wholesale market in 2020.

			the storage installed on the distribution system as part of the PJM wholesale market (behind-the-meter), it may not be possible unless the installation requires an interconnection agreement.	
15B	Grid connected energy storage interconnected to utility facilities at the transmission or distribution system level	Number of locations and total MWs of utility owned or operated energy storage interconnected to the transmission or distribution system as measured at storage device electricity output terminals.	The number of locations and total MWs of utility owned or operated energy storage interconnected to the **transmission** system as measured at storage device electricity output terminals is zero. ComEd has not installed any storage on either the transmission or distribution system in 2012.	ComEd has not installed any utility owned or operated energy storage on the transmission system, nor has any utility owned or operated energy storage been certified, tested or deployed in the ComEd test bed in 2020. There were 0 MW of customer owned energy storage interconnected to the **Transmission** system in 2020. There were 6 (six) customer owned energy storage projects for a total of 747.2 MW, in the interconnection queue for connection to the ComEd **Transmission** system for participation in the PJM wholesale market in 2020.

<table>
<tr>
<td>15C</td>
<td>Grid connected energy storage interconnected to utility facilities at the transmission or distribution system level</td>
<td>ComEd will conduct an annual survey through a third-party provider to estimate similar measures of non-utility storage units.</td>
<td>In-depth interviews with industry participants in non-utility storage markets and secondary research will be conducted in 2013. This will be performed in lieu of a survey until the penetration of non-utility storage units reaches a size that a survey produces meaningful data and becomes cost-effective.
ComEd will continue to work with the external stakeholders to further estimate similar measures of non-utility storage units.</td>
<td>Please reference Attachment 4.</td>
</tr>
<tr>
<td>16A</td>
<td>Time required to connect distributed resources to grid</td>
<td>ComEd’s response time to a distributed resource project application, and time from receipt of application until energy flows from project to grid (distribution.)</td>
<td>ComEd’s response time to a distributed resource project application can be referenced in the ICC guidelines, as follows: Title 83: Public Utilities - Chapter I: Illinois Commerce Commission - Subchapter c: Electric Utilities - Part 466 - Electric Interconnection of Distributed Generation Facilities.

Please reference Attachment 1 for the time from receipt of application (using the application complete date as the start date for 2012 reporting) until energy flows from project to grid (distribution.)</td>
<td>ComEd's response time to an Interconnect application is governed by the ICC Administrative Code Part 466/467. Refer to Attachment 2 for a detailed calculation of the average duration.

<table>
<tr><th>Energy Source</th><th>Count of Applications Connected</th><th>Average of Duration (Days)</th></tr>
<tr><td>Other</td><td>1</td><td>665.0</td></tr>
<tr><td>Natural Gas</td><td>1</td><td>604.0</td></tr>
<tr><td>Solar</td><td>10,494</td><td>140.5</td></tr>
<tr><td>Storage</td><td>11</td><td>147.7</td></tr>
<tr><td>Total</td><td>10,507</td><td>140.6</td></tr>
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16B	Time required to connect distributed resources to grid	ComEd's response time to a distributed resource project application, and time from receipt of application until energy flows from project to grid (transmission.)	This does not apply since there were zero projects to apply this measurement.	This does not apply since there were zero projects to apply this measurement.
17	Voltage and VAR controls	Number and percentage of distribution lines using sensing from an AMI meter as part of ComEd's voltage regulation scheme.	The number and percentage of distribution lines using sensing from an AMI meter as part of ComEd's voltage regulation scheme is as follows: Feeders that use sensing from an AMI meter as part of a voltage regulation scheme is 13 out of 5,456 (0.24%).	The number and percentage of distribution lines using sensing from an AMI meter as part of ComEd's voltage regulation scheme is as follows: In 2020, 434 additional feeders were successfully integrated into the Volt/Var Optimization Program. Feeders that use sensing from an AMI meter as part of a voltage regulation scheme is now 980 out of 5629 (17.4%). 5629 is the total ComEd feeder count as of December 31, 2019.
18A	Grid assets that are monitored, controlled, or automated	Number and percentage of ComEd substations (Distribution Center Substations ("DCs"), Substations ("SSs") Transmission Substations ("TSSs") and Transmission Distribution Centers ("TDCs")) monitored or controlled via Supervisory Control and Data Acquisition ("SCADA") systems.	The number and percentage of ComEd substations (Distribution Center Substations ("DCs"), Substations ("SSs") Transmission Substations (TSSs) and Transmission Distribution Centers ("TDCs")) monitored or controlled via Supervisory Control and Data Acquisition ("SCADA") systems is as follows: Number on SCADA: DC: 479	Final metric #18A was reported in the 2020 AIPR filed 4/1/20, copied below for reference: The number and percentage of ComEd substations (Distribution Center Substations ("DCs"), Substations ("SSs") Transmission Substations (TSSs) and Transmission Distribution Centers ("TDCs")) monitored or controlled via Supervisory Control and Data Acquisition ("SCADA") systems is as follows:

			TDC: 115 SS: 51 TSS: 169 Generating Stations: 16 Relay Points: 5 Percentage on SCADA: DC: 99% TDC: 100% SS: 100% TSS: 100% Generating Stations: 100% Relay Points: 100%	Number on SCADA: DC: 480 TDC: 115 SS: 51 TSS: 171 Generating Stations: 16 Relay Points: 5 Percentage on SCADA: DC: 100% TDC: 100% SS: 100% TSS: 100% Generating Stations: 100% Relay Points: 100%.
18B	Grid assets that are monitored, controlled, or automated	Number and percentage of ComEd distribution circuits (4kV, 12kV and 34kV) equipped with automation or remote control equipment including monitor or control via SCADA systems.	The number and percentage of ComEd distribution circuits (4kV, 12kV and 34kV) equipped with automation or remote control equipment including monitor or control via SCADA systems is 5,168 distribution circuits (99% of total). Specifically, circuits with 12kV DA =1,169 circuits (24% of the system circuits.)	The number and percentage of ComEd distribution circuits (4kV, 12kV and 34kV) equipped with automation or remote control equipment including monitor or control via SCADA systems is 5,490 distribution circuits (99% of total). Specifically, circuits with 12kV DA =2,406 circuits (58% of the system circuits.)

19	Customers connected per automated circuit segment	Average number of customers per automated three phase 12kV line segment. (An "automated line segment" is a segment of 12 kV three phase mainline circuit between automated devices which include circuit breakers, reclosers, automated switches, etc.; A "customer" is a ComEd account connected on the automated 12kV three phase line segment.)	The average number of customers per automated three phase 12kV line segment is 638.	The average number of customers per automated three phase 12kV line segment is 494.
20	Improvement in line loss reductions enabled by smart grid technology	Improvement in line loss reductions enabled by smart grid technology - ComEd will research the uncertainty in line loss measurement collaboratively with CUB and EDF.	ComEd will work with CUB and EDF to develop a full and practical measure of Line Loss Reductions as enabled by smart grid investments, by exploring the capability of calculating Line Loss reductions realized through items such as the following: More efficient equipment Increased use of distributed generation that is located closer to the load	In 2020, 40 substations were successfully integrated into our Volt/Var Optimization Program. The total number of substations integrated into the Voltage Optimization (VO) Program is 143 as of December 31, 2020. Voltage Optimization is part of Future Energy Jobs Act beginning in 2017.

			Optimized power flows Volt/VAR optimization Improved power factor The parties will hold stakeholder workshops in 2013 to identify the best approach to achieve this measure in Illinois, including strategies for better data collection.	
21	Tracking Actual Costs	The actual cost of the AMI deployment costs incurred by ComEd, including both one-time costs and on-going operating costs	The actual cost of the AMI deployment costs incurred by ComEd, including both one-time costs and on-going operating costs is as follows: Actual Costs Incurred (000's), not including PTR: One-time CAP - $272 One-time O&M (if applicable) - $12,410 Ongoing CAP - $22 Ongoing O&M - $6,023 TOTAL- $18,728	Final metric #21 was reported in the 2020 AIPR filed 4/1/20, copied below for reference: The actual cost of AMI deployment costs that ComEd has incurred, including both one-time costs and on-going costs is as follows: Actual Costs Incurred (000's): One-time CAP - $7,689 One-time O&M (if applicable) - $4,192 Ongoing Cap - $2,200 Ongoing O&M - $29,305 TOTAL - $43,385
22	Customer Applications	Bill impacts associated with the costs for implementation of	Please reference Attachment 1 for the metric data and Attachment 2	Please reference Attachment 1 for the metric data and Attachment 2 for

		ComEd's AMI Plan for low, average, and higher usage level customers pursuant to approved rates and surcharges. The usage level calculations will be values for a "typical" customer at the 25th, 50th, and 75th percentile of total usage for each applicable delivery service class.	for supporting documentation.	supporting documentation.
23	Customer Applications	Number of customers that have created and viewed an account on ComEd.com – by usage levels, customer class, and low income customers. An account on ComEd.com is necessary for viewing the web portal.	Please reference Attachment 1.	Please reference Attachment 1.
24	Customer Applications	Number of customers with ComEd.com accounts that have viewed the web portal - by usage levels, customer class, and low income customers	Please reference Attachment 1.	Please reference Attachment 1.
25	Customer Applications	Change in customers' energy consumption for customers that have viewed the web portal. ComEd will work with the web presentment vendor to define the business processes necessary to track an energy usage impact of accessing the web portal.	The "My Energy" Tools web portal became available to all ComEd residential customers through their ComEd.com account in September 2012. Given the short timeframe this was available to customers and the time needed to discern savings from customer billing data following their access to the web	ComEd has continued to work with its web presentment vendor to develop and vet a methodology for measuring energy savings by customers who have viewed the webs portal (ComEd.com/MyAccount). The 2020 methodology remains the same as the prior year. Please reference Attachment 1 for a full description of the methodology.

			tools and subsequent actions taken to reduce their usage, there are no savings to report at this time. More robust analytics are expected as a greater number of customers begin accessing the My Energy Tools web portal and additional billing data can be utilized to measure savings in the future.	2020 Results The tables below displays calendar year 2020 energy efficiency savings from web among ComEd customers who logged-in for the first time in calendar year 2020 and had sufficient data to be included in the analysis. Table 1. Electric Savings Results • Percentage Saving: (%):1.61% +/- 0.2% • Savings per customer per day (kWh) 0.404 +/- 0.104 • Total Customers: 40,853 • Total savings (MWh): 2,719 +/- 701 Note: Savings estimates are statistically significant at the > 95% level. Margin of error represents 95% confidence interval.
26	Customer Applications	Number of customers enrolled in the Residential Real Time Pricing ("RRTP") program (ComEd's hourly pricing program) by usage levels, customer class, and low income customers.	Please reference Attachment 1.	Please reference Attachment 1.
27	Customer Applications	Number of customers enrolled in any future Time of Use ("TOU") program that ComEd might offer by usage levels, customer class, and low-income customers.	The number of customers enrolled in any future Time of Use ("TOU") program that ComEd might offer by usage levels, customer class, and low-income customers is zero.	Please reference Attachment 1.

28	Customer Applications	Number of customers enrolled in ComEd's PTR program by usage levels, customer class, and low income customers.	The number of customers enrolled in ComEd's PTR program by usage levels, customer class, and low income customers is zero.	Please reference Attachment 1.
29	Customer Applications	Number of deposits required, disconnection notices, and disconnections for nonpayment for all customers and, if applicable, by low income customers. Other "key indicia associated with credit and collection activities targeted to low income customers" may be incorporated in the project plan's business process redesigns for future implementation.	Please reference Attachment 1.	Please reference Attachment 1.
30	Customer Applications	If further information is required to allow ComEd to track vulnerable populations and that information is not easily available (or only at significant cost) then ComEd should provide an explanation of the barriers to tracking vulnerable populations.	Please reference Section IV of Appendix A to this Report - Vulnerable Customers.	Please reference Section IV of Appendix A to this Report - Vulnerable Customers.
31	Customer Applications	ComEd should further identify what measures would be necessary to protect consumer privacy in tracking vulnerable populations.	Please reference Section IV of Appendix A to this Report - Vulnerable Customers.	Please reference Section IV of Appendix A to this Report - Vulnerable Customers.
32	Customer Applications	The definition and identification of such groups should be	Please reference Section IV of Appendix A to this Report - Vulnerable Customers.	Please reference Section IV of Appendix A to this Report - Vulnerable Customers.

		discussed with stakeholders and Staff to develop a methodology to be included with the modified AMI Plan. To the extent that is not possible, it should be included with the first annual filing.		
33	Customer Outreach & Education	Awareness and Education - Awareness and understanding of AMI technology and benefits (survey metric)	6,032 surveys were collected for awareness and understanding of AMI technology and benefits.	Final metric # 33 was reported in the 2020 AIPR filed 4/1/2020, included below for reference: As AMI mass deployment was completed in 2018, no surveys were conducted at community events in 2019.
34	Customer Outreach & Education	Customer Experience and Engagement - Understanding of AMI Technology (Customer Experience/Engagement Research and Customer Experience Tracking).	74 Community Events were conducted about Understanding AMI Technology.	Final metric # 34 was reported in the 2020 AIPR filed 4/1/2020, included below for reference: As AMI mass deployment was completed in 2018, community event participation focused on other ComEd programs.
35	Customer Outreach & Education	Community Outreach - # of community events and # of direct interactions	Community Outreach included: 74 Community Events conducted and 50,871 direct interactions.	Final metric # 35 was reported in the 2020 AIPR filed 4/1/2020, included below for reference: As AMI mass deployment was completed in 2018, community event participation focused on other ComEd programs.

36	Customer Outreach & Education	Local Media - # of articles that appear in local media	1,125 articles appeared in local media.	Final metric #36 was reported in the 2020 AIPR filed 4/1/2020, included below for reference: As AMI mass deployment completed in 2018, one media release was created, focusing on Peak Time Savings enabled by the smart grid and smart meter.
37	Customer Outreach & Education	Internal newsletter (# of articles in newsletter)	37 articles were included in the internal newsletter.	Final metric #37 was reported in the 2020 AIPR filed 4/1/2020, included below for reference: As AMI deployment completed in 2018, no related internal articles appeared in the newsletter.
38	Customer Outreach & Education	Customer Experience and Engagement - Meter Installations complaints/claims (Rapid Response Situational Assessments)	55 Meter Installations complaints/claims.	Final metric #38 was reported in the 2020 AIPR filed 4/1/20, copied below for reference: From 1/1/19 to 6/30/19: 27 AMI claims
39	Customer Outreach & Education	Customer Experience and Engagement - # of installation appointments (tracked by AMI Deployment team)	Zero installation appointments.	Final metric #39 was reported in the 2020 AIPR filed 4/1/20, copied below for reference: AMI mass deployment was completed in 2018, therefore this metric was not tracked in 2019 (as per Dale Larkin and Susie Wolfram).
40	Customer Outreach & Education	Community Outreach - # of customer organizations contacted	1,098 organizations were contacted as part of Community Outreach.	As AMI mass deployment completed in 2018, outreach focused on CARE and the Smart Energy Hub, resulting in

				coordination with 99 organizations.
41	Customer Outreach & Education	Community Outreach - # of customer communication methods deployed	17 communication methods employed as part of Community Outreach.	Five communication methods were utilized as part of Community Outreach.
42	Customer Outreach & Education	Awareness and Education - # of advocates and ambassadors informed	70 Ambassadors were contacted and informed.	Final metric #42 was reported in the 2020 AIPR filed 4/1/2020, included below for reference: As AMI mass deployment was completed in 2018, Youth Ambassadors educated customers about solar energy.
43	Customer Outreach & Education	Awareness and Education - # of surveys completed at events	6,032 surveys were collected at events.	Final metric #43 was reported in the 2020 AIPR filed 4/1/2020, included below for reference: As AMI event outreach was discontinued, no surveys were conducted.
44	Customer Outreach & Education	Measurement of Energy Management Education & Outreach events + Interactive items	Community outreach included: 74 Community Events conducted and 50,871 direct interactions.	Final metric #44 was reported in the 2020 AIPR filed 4/1/2020, included below for reference: As AMI mass deployment was completed in 2018, community event participation focused on other ComEd programs.
45	Customer Outreach & Education	Measurement of the Speaker's Bureau Program	3,537 interactions related to the Speaker's Bureau Program.	A total of 11 CARE workshops and table events and 9,213 direct interactions.
46	Customer Outreach & Education	Measurement of the Youth Ambassador Program	2,332 direct contacts in the Youth program; 70 Youth Ambassadors.	As AMI mass deployment was completed in 2018, Youth Ambassadors curriculum was focused on solar energy. Due to COVID-19

				the program did not conduct community outreach.
47	Customer Outreach & Education	Measurement of Faith-based and Low-Income Outreach	19 direct interactions; 900 organizations contacted for Faith- based and Low-Income Outreach.	A total of 11 CARE workshops and table events and 9,213 direct interactions.
48	Customer Outreach & Education	Measurement of Email Marketing	378,315 email subscribers; 7 emails sent to customers; 6,287 clicks.	Seven emails were sent to 2.2M email subscribers, focusing on PTS, TOD, and Hourly Pricing programs enabled by the smart grid and smart meter, resulting in 981,123 clicks to open.
49	Customer Outreach & Education	Measurement of Energy @ Home and Bill Inserts program	1 article developed for newsletter; 3.1M bill inserts for residential; 295,000 bill inserts for commercial as a part of the bill insert program.	Two articles, focusing on PTS and Hourly Pricing programs enabled by the smart grid and smart meter, developed for newsletters sent to 5M customers.
50	Customer Outreach & Education	Measurement of Direct Mail for PTR and Web Tools	This does not apply to 2012.	600,437 mailers focusing on PTS, TOD, and Hourly Pricing programs enabled by the smart grid and smart meter were sent to customers.
51	Customer Outreach & Education	Measurement of Videos and Brochures	5 videos created with 22,093 views.	Final metric #51 was reported in the 2020 AIPR filed 4/1/2020, included below for reference: As AMI mass deployment completed in 2018, no AMI introductory mailers, pre-deployment letters, videos, or brochures were distributed.
52	Customer Outreach & Education	Measurement of Online and Social Media Outreach	Online and Social Media Outreach Measurements: Number of Stories Promoted on ComEd Facebook page is 26. Number of Likes on Facebook is	As AMI mass deployment and community outreach completed in 2018, there were no related event posts in social media.

			295. Number of Times a Story was Shared on another Facebook page is 16. Number of Engaged Facebook Users (the # of people who have clicked on a post) is 375. Number of Facebook Users who saw a Post from ComEd in 2012 is 72,789. Number of Blog Stories and Conversations with Mommy bloggers is 1. Number of Facebook Interactions with Games is 4,489. Number of People who Visited ComEd.com/Smart Grid is 9,560.	15,418 visits to the ComEd Smart Meter web page. 8,117 visits to the ComEd Smart Grid web page. 2,818 visits to the ComEd municipal aggregation web page.
53	Customer Outreach & Education	Measurement of Teacher Partnership	This does not apply to 2012.	Completed 51 Smart Energy Hub field trips at the Chicago and Rockford Training Centers, educating more than 1,400 attendees.
54	Customer Outreach & Education	Measurement of Municipal Toolkit and Experimental Marketing Materials	Municipal Toolkit and Experimental Marketing Materials Measurement is 120 Direct interactions.	26 informational meetings were held with customer groups. 55 informational meetings were held with local officials. 0 field tours were held with local officials due to the pandemic.
55	Customer Outreach & Education	Measurement of Municipal Event Speakers, Bureau Town Halls	For Municipal Event Speakers and Bureau Town Halls there were: 2,601 informational meetings with customers. 1,000 informational meetings	26 informational meetings were held with customer groups. 55 informational meetings were held with local officials.

			with local officials. 30 field tours with local officials.	0 field tours were held with local officials due to the pandemic.
56	Customer Outreach & Education	Measurement of Municipal Online Web	16,406 site visits to ComEd Municipal Website.	2,818 visits to the ComEd municipal aggregation web page.
57	Customer Outreach & Education	Measurement of Outreach Materials - Interactive items	38,752 interactive gameplay participants.	Final metric #57 was reported in the 2020 AIPR filed 4/1/2020, included below for reference: Games were discontinued in 2017.
58	Customer Outreach & Education	Measurement of Awareness Tracking	The 2012 Baseline measurements for awareness tracking were: Percentage aware of Smart Grid: 43% Percentage aware of Smart Meter: 26% Percentage Knowledgeable among those aware of Smart Grid: 29% Percentage Knowledgeable among those aware of Smart Meter: 33%	Final metric #58 was reported in the 2020 AIPR filed 4/1/2020, included below for reference: As AMI mass deployment completed in 2018, no awareness tracking was conducted.
59	Customer Outreach & Education	Measurement of Customer Experience and Message Testing	$200,000 spent on market research and customer experience tracking.	Final metric #59 was reported in the 2020 AIPR filed 4/1/2020, included below for reference: As AMI mass deployment completed in 2018, market research and customer experience tracking was discontinued.

60	Customer Outreach & Education	Measurement of Staff dedicated to the program	4 dedicated FTEs for EIMA Program Customer Outreach.	Final metric #60 was reported in the 2020 AIPR filed 4/1/2020, included below for reference: As AMI mass deployment was completed in 2018, there were zero dedicated FTEs.

ComEd
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Smart Grid Advanced Metering Annual Implementation Progress Report

APPENDIX A - NIST REPORT

I. Introduction

Pursuant to the June 2012 Order, ComEd was directed to submit information with its Annual Implementation Progress Report ("AIPR") concerning any updates since the submission of the AMI Plan to standards identified by the National Institute of Standards and Technology ("NIST"), including standards adopted by NIST's Smart Grid Interoperability Panel ("SGIP"), and how ComEd is addressing them.[8] In addition, in that same June 2012 Order, the Commission also directed ComEd to address in its 2013 AIPR: (1) if a Time-of-Use ("TOU") tariff will be proposed and the results of the dialogue with stakeholders regarding same; and (2) the development of a methodology to define and identify vulnerable customers and issues related to tracking information for vulnerable customers. ComEd did so, and in the order entered approving ComEd's 2013 AIPR, the Commission decided that any further discussion of these two issues was outside the scope of an AIPR proceeding[9]. Thus, while the TOU and potentially vulnerable customers are not issues in any proceeding that may be opened by the Commission to review ComEd's 2016 AIPR, ComEd does present, for informational purposes only, a discussion of its further efforts in 2015 to address these two issues.

Similarly, in the June 2012 Order, the Commission also directed ComEd to work with interested parties to implement a map showing where distributed generation ("DG") would be good or bad. While the Commission did not specifically direct ComEd to report on the progress of the DG mapping request with its AIPR and specifically indicated that any issues regarding DG mapping should be brought before the Commission in a separate filing or rulemaking, ComEd is reporting on the status of this effort for the convenience of the Commission and all interested parties.

A discussion of the status of each item described above is provided below.

II. Updated NIST Interoperability Standards

As noted above, in the June 2012 Order, the Commission directed ComEd to report on any updates to any applicable NIST standards and explain how it is addressing any such updates. The applicable NIST standards noted within the Revised AMI Plan are regularly reviewed by the Information Technology ("IT") team at ComEd for completeness and accuracy. Each standard is studied to identify any updates or changes, and to determine whether it has been superseded by newer or more appropriate standards.

NISTIR 7628 Guidelines for Smart Grid Cybersecurity include:

- Finalized combined cyber-physical attacks descriptions, which now includes physical impacts resulting from cyber-based attacks
- Supplementary cybersecurity testing and certification approaches and guidelines
- Best practices for 3rd parties to manage smart grid data and privacy concerns

[8] June 2012 Order at 25

[9] 2013 AIPR Order at 10 and 15.

- Cybersecurity issues associated with communications between electric plug-in vehicles and the smart grid
- New security awareness and training guides and templates (for both external consumers and internal personnel)
- Emerging privacy risks regarding the advent of new technologies and activities that could leverage the smart grid

Updates within NIST 7761 Priority Action Plan 2: Guidelines for Assessing Wireless Standards for Smart Grid Applications include:

- Extended approach and framework for modeling and evaluating wireless technologies
- Additional toolsets and templates for modeling and evaluating wireless technologies
- Sensitivity analysis and impacts for input parameters
- Further guidance, information, and considerations pertaining to wireless standards and implementing associated technologies for smart grid network designers/planners

The IT team reviewed these revisions accordingly and determined that the Revised AMI Plan remains aligned with the applicable NIST requirements detailed within the updated standards. This includes NIST recommendations related to customer data and privacy. Furthermore, the IT team continues to assess and evaluate any supplementary considerations that are mentioned by NIST for informational purposes.

Additionally, standard IT security management activities are completed by the IT team as a component of the required support of AMI systems. Security management activities are completed to align with ComEd policies and industry standards, and include activities such as deploying security system packages to allow for appropriate security and vulnerability monitoring, ensuring that deployed servers adhere to password and system control procedures, performing periodic server fixes and security updates, and performing vulnerability assessments as well as subsequent remediation steps to rectify any defects or findings.

III. Time of Use Rate

A. Consideration of Utility TOU Rates

1. Background

As reported in Appendix A to ComEd's 2013 AIPR, which was investigated in ICC Docket No. 13-0285, ComEd met with the Smart Grid Advisory Council ("SGAC") and other stakeholders at that time to discuss the development of time-of-use ("TOU") rates within Illinois' competitive market and reported the results of its meetings with stakeholders.[10] As a result of

[10] 2013 AIPR, App. A at 2-4.

those meetings, ComEd concluded that a utility-offered TOU rate would be a potential disruption to the competitive market, and committed to continue to work with stakeholders to enable Retail Electric Supplier ("RES") TOU offerings. The Commission agreed with ComEd's conclusion and in its 2013 AIPR Order declined to require ComEd to offer a TOU rate.[11]

On February 13, 2015, CUB and EDF filed a Petition to Initiate a Proceeding to Investigate the Adoption of a Utility Time of Use Rate that was assigned ICC Docket No. 15-0100. Interveners included Elevate Energy, ComEd, the Illinois Power Agency, the Illinois Competitive Energy Association ("ICEA"), Ameren Illinois Company ("Ameren"), and the Retail Energy Supply Association ("RESA"). A Final Order was entered by the Commission on September 16, 2015, and concluded that the Petition was premature and would unnecessarily disrupt the process previously adopted by the Commission.[12] The Commission pointed to written guidance offered on March 14, 2012, in which the SGAC clearly recommended that stakeholders first work to enable RES TOU offerings, and to consider utility-offered TOU rates afterwards. That guidance stated:

> Once the infrastructure and systems are in place to support TOU offerings by ARES, the initial question before the ICC will be how to determine whether the offerings of Illinois' alternative retail electric suppliers ("ARES") include a sufficient set of TOU rate options to adequately serve the public interest.[13]

The 15-0100 Order further stated that the competitive RES market had not had an opportunity to develop and, thus, based on this SGAC Guidance, the Petition was premature. The Commission ultimately dismissed the matter, finding that to initiate an investigation at this stage in time, before the stakeholder process is complete, would be inappropriate.[14]

1. Utility TOU Pilot

On November 19, 2018, ComEd filed Rate RTOUPP - Residential Time of Use Pricing Pilot ("Rate RTOUPP") to effectuate a pilot residential time of use supply rate. The pilot, if approved, will extend for four years and will allow ComEd to examine if fixed-price supply rates with prices that differ during three different pricing periods will incentivize customers to shift energy consumption from higher cost (peak) periods to lower cost (off-peak) periods and save money in comparison to Rate BES – Basic Electric Service ("Rate BES"). The pricing methodology ComEd proposed is based upon PJM hourly market pricing with slight shifts in revenue recovery to created higher differentiation between the highest and lowest price periods and with generation related capacity costs recovered as they are incurred, with a kW-based charge.

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[11] Docket No. 13-0285, final Order (June 26, 2013) at 15.

[12] Docket No. 15-0100, final Order (Sept. 16, 2015) ("15-0100 Order").

[13] ICC Docket 15-0100, Petition, Attachment A (March 14, 2012 Guidance Regarding Implementation of Time of Use Rates, Smart Grid Advisory Council) at 5-6.

[14] 15-0100 Order at 9.

On October 2, 2019 the Commission approved the four-year TOU pilot with a cap of 1,900 participants. However, ComEd has requested rehearing on the methodology for recovering generation related capacity costs because the final order assigned the generation related capacity costs primarily to the kWh based Super Peak Period price. Regardless of the outcome in the order on rehearing (due by April 1, 2020), this new rate will be available starting with June 2020 bills. ComEd is in the process of preparing resources to educate customers on the TOU rate and to provide tips for how use less energy in the higher priced periods. To help customers in their enrollment decisions, ComEd is also developing a web-based bill comparison tool that will use AMI data to provide customers an estimate of their potential savings on the TOU rate.

C. Facilitation of RES TOU Offerings

1. Background

In ICC Docket No. 12-0484, the Commission investigated ComEd's Petition to seek approval of tariffs implementing ComEd's PTS program, pursuant to Section 16-108.6(g) of the PUA. In its Interim Order dated February 21, 2013, the Commission directed Staff to hold workshops with interested parties in order to address certain issues that arose during the investigation. Beginning in April 2013 and continuing on throughout 2014, 2015 and 2016, Staff hosted a series of "Enabling the Market" workshops that were attended by utilities, consumer groups, Retail Electric Suppliers ("RESs"), and other interested stakeholders. In addition to the items the Commission directed the parties to address, the workshops covered several AMI-related topics, including the release of customer-specific information by electric utilities and enabling RESs to offer TOU and other dynamic pricing products, which eventually led to the development of ComEd's Rider RMUD – Residential Meter Usage Data ("Rider RMUD"), which is discussed later in this section.

2. Release of Customer-Specific Information by Electric Utilities

Several of the initial issues discussed at the Staff-led workshops revolved around the question of electric utilities releasing customer-specific information to third parties. While one of those issues, i.e., identifying customers participating in ComEd's PTS program, had been raised in Docket No. 12-0484, additional issues were identified in the workshop discussions that focused on how Sections 16-122 and 16-108.6 of the PUA impacted a utility's ability to release customer-specific information to third parties.

Recognizing that these issues would not be resolved in the workshops, the Commission's Office of Retail Market Development ("ORMD") issued a report dated August 30, 2013 (the "Staff Report") requesting that the Commission investigate certain issues: (1) the release of aggregated, anonymous customer usage information; (2) the release of information identifying PTS and net metering customers; and (3) RES access to its customers' interval usage data that is not used for the purposes of billing a customer. The Commission initiated an investigation in these matters on September 4, 2013 in Docket No. 13-0506 ("Data Privacy Docket"), which culminated in a Commission Order on Rehearing dated July 30, 2014, effectively closing out this issue. ("Data Privacy Order on Rehearing").

a. Aggregated, Anonymous Data

In the Data Privacy Order on Rehearing, the Commission held that Section 16-122 and Section 16-108.6 of the PUA do not prohibit the release of anonymous customer usage information in accordance with the data protocol adopted in the Final Order which protects customer privacy and is in the public interest.[15]

The Commission further found that, pursuant to Section 16-122, no fee is specifically required for this data; however, there is nothing in Section 16-122 to prevent the utilities from charging a reasonable fee when providing this information. Effective February 11, 2017, ComEd offers access to anonymous customer usage information as a data service.

b. Identification of PTS and Net Metering Customers

From discussions during the workshops, there was an understanding that competitive suppliers have legitimate reasons to obtain certain information about individual customer accounts, and that freer access to various types of individual customer information could assist in realizing certain benefits available from the smart meter infrastructure. At the same time, ComEd and other parties expressed concerns related to customers' privacy interests – both in the obvious interest of adhering to state law and also because data privacy had been cited as a reason for customer refusals of smart meter deployment.

The Commission ruled that a customer's participation in PTS or net metering programs is billing data and that verifiable authorization from individual customers is required under the PUA before disclosure may occur. In the Data Privacy Order dated January 28, 2014, the Commission also found that the electric utilities should not be required to provide lists of customers that are PTS or net metering participants, as this would contravene Section 16-122. The Commission also determined that possession of an account number should be considered customer authorization to receive certain information about such customer's account, including whether the customer is a PTS or net metering customer, or a participant in any supply related or demand response program offered by the utility. Effective June 13, 2014, new indicators were added to the Summary Data request report and the Interval Usage Data request report available on the comed.com website as well as to the Municipal Aggregation Customer Report provided to communities implementing aggregation programs. The indicators were also added to the Customer Supply List available to RESs through the supplier portal. The indicators provide notification of customers currently receiving service under the following riders: Rider POGNM – Net Metering, Rider PTR - Peak Time Savings, and Rider A/C - A/C Cycling. As of 2015, this issue is considered implemented and closed.

c. RES Access to Customer's Interval Data Not Used for Billing Purposes

The type of authorization required for RES access to non-billing interval data, as well as how RESs would verify to the electric utility that they obtained proper authorization, were

[15] Data Privacy Order on Rehearing at 10-11.

discussed in the Enabling the Market workshops. These issues were or are being considered in two Commission proceedings, Docket Nos. 14-0701 and 15-0073. In Docket No. 14-0701, an investigation into the standard terms for customer authorization of access to interval usage data for non-billing purposes, the Commission approved standardized language that must be used to demonstrate RES authorization to access non-billing interval data. At Staff's direction, as a result of workshop discussions throughout 2014, the warrant forms and processes were developed to allow RESs to certify to the utilities that they have obtained such authorization. ComEd filed Rate DART - Data Access and Retrieval Tenants ("Rate DART") to provide the RESs access to up to twenty four consecutive months of AMI Historical Interval Usage not used for billing purposes for customers that they do not currently serve. The ICC approved the tariff on December 22, 2015 (Docket 15-0623). The warrant form is available to Retail Electric Suppliers for use of the data service and is available for their use in the Supplier Portal.

Docket No. 15-0073, an investigation into the customer authorization required for access to AMI interval data by third parties other than RESs. The Commission issued a Final Order on March 23, 2015 approving standardized authorization language that must be obtained by non-RES third parties from retail customers in order to access AMI interval data for non-billing purposes. The Commission also approved the Green Button method of authorization in its Order. Through 2018, thirty-eight (38) third parties have inquired about the Green Button Connect process with twenty (20) taking the first steps to begin the process with six (6) third parties moving forward with IT testing.

The "Enabling the Market" workshops also resulted in Supplier Portal enhancements which provide historical customer data for customers the RES serves. These enhancements included the ability for suppliers that register for Rider RMUD to obtain non-billing interval data for their customers daily instead of at the end of each billing period. Suppliers are now able to utilize a Supplier Portal to view this non-bill quality interval data on a daily basis (i.e. the day after) in addition to a one-time 24-month look back. The Portal retains a rolling 35 day historical interval usage for each customer on RMUD if the supplier would like to view the data. Since this data is not bill quality it may differ from the billing usage sent at the end of the monthly billing period via Electronic Data Interchange (EDI).

ICC Docket 15-0073, filed on January 28, 2015, addresses the investigation into the Customer Authorization Required for Access by Third Parties Other Than Retail Electric Suppliers to Advanced Metering Infrastructure Interval Meter Data, therefore any further comments on this topic should be addressed there.

3. RES TOU Offerings and Other Dynamic Pricing Products

a. Residential Meter Usage Data ("Rider RMUD")

As described in the 2015 AIPR, ComEd used the information and feedback from "Enabling the Market" workshop participants to design Rider RMUD – Residential Meter Usage Data ("Rider RMUD"). Beginning January 16, 2014, Rider RMUD authorized ComEd to provide granular residential meter usage data to authorized RESs taking service under Rate RESS – Retail Electric Supplier Service ("Rate RESS") serving those residential customers that they provide not only electric power and energy supply services, but also TOU pricing and/or demand response products, all as described in the tariff. Rider RMUD was initially filed and approved as

a pilot tariff. ComEd completed the upgrade of the new meter data management system ("MDMS") in August of 2014, subsequently increased the number of customers for whom RESs could receive such data to 100,000 from 15,000 through the end of 2015, and eliminated the customer cap as of January 1, 2016 – at which point Rider RMUD is offered generally rather than on its original pilot basis. As of the end of 2018, 5 RESs were utilizing this service for a total of 366 customers; up slightly from the 312 customers at the end of 2017.

b. Peak Time Savings

Beginning in October 2014, and continuing through 2015, ComEd opened enrollment in the PTS program, which provided all customers with an AMI meter, regardless of supplier, the opportunity to begin receiving credits for energy curtailments during the summer months following enrollment. In March of 2016, ComEd filed tariff revisions related to the program, which were subsequently approved by the Commission and became effective on May 6, 2016, to allow for the ability to remotely control the temperature settings of Company-approved smart thermostats installed by individual residential customers to regulate their central air conditioning systems. The compensation provided to a residential customer is dependent upon measurements of actual reductions in the customer's demands for electric power and energy relative to a baseline level identified for the customer.

4. Additional commitments to customized education related to TOU products:

ComEd's education and outreach efforts under the AMI Plan have included information on dynamic pricing products offered by ComEd and alternative suppliers and how customers can use them to achieve certain benefits. In addition to the customized education delivered to key customer segments describing ComEd offerings such as PTS, Hourly Pricing and web tools, the PlugInIllinois.com/smartmeter website continues to provide comprehensive details of RES offerings. As of December 2018, there were no TOU offerings presented on the PlugInIllinois site, however, ComEd has 5 RESs certified under Rider RMUD.

IV. Vulnerable Customers

As reported in previous AIPRs, stakeholders have agreed to define and identify vulnerable customers as customers belonging to the following customer groups:

1. Low income
2. Very young (from birth to age 5)
3. Older individuals (age 65 and older)
4. Those who have limited English proficiency or literacy
5. Individuals with a functional disability, such as impaired mobility
6. Persons who are socially isolated

ComEd makes best efforts to obtain information on vulnerable customers, but such information remains limited due to the unavailability of certain information – such as age and English fluency – that would enable identification of vulnerable customers based on the factors identified above. In addition, obtaining data on customers meeting any of the six criteria used to

define vulnerable customers by zip code or census tract is not useful for purposes of the reporting requirements.

However, ComEd will continue to report on vulnerable customers using the limited information in its possession regarding low income customers (Group 1, above) and customers with qualifying life support equipment at the premises or having a certified medical condition in the household (Group 5, above) and will supplement such reports if additional verifiable data becomes available from other entities, such as the Department of Commerce and Economic Opportunity ("DCEO"). In addition, ComEd will continue to administer assistance programs and will engage in education and outreach for low income customers. Low income customers are defined as those customers who participate in the Low Income Home Energy Assistance Program ("LIHEAP"), the Residential Special Hardship Program the Percentage of Income Payment Plan ("PIPP"), and the Chicago Housing Authority ("CHA") All Clear Program.

In 2018 there were no further developments in acquiring data for Groups 2, 3, 4 or 6. As in 2019, in 2020 ComEd will continue to evaluate outreach to customers in need, where there is data to identify such customers, through alerts, enhanced messaging and payment arrangements.

V. DG Mapping

In the June 2012 Order, the Commission determined that concerns raised by CUB and the ELPC about perceived barriers to the installation of DG needed to be addressed in a separate rulemaking. The Commission, however, directed ComEd to work with interested parties to implement their "request for a map showing where distributed generation would be good or bad."[1] Following meetings with interested parties, ComEd created and posted a map tool on its website and notified interested parties on August 15, 2013 of the posting.[2] ComEd upgraded the original map tool in October of 2018 with a new Hosting Capacity map and updates the map once per year. The Hosting Capacity map was updated again in September of 2020.

[1] June 2012 Order at 50.

[2] https://www.comed.com/customer-service/rates-pricing/interconnection/Pages/distribution-under-10000kva.aspx.

ComEd
An Exelon Company

Smart Grid Advanced Metering Annual Implementation Progress Report

APPENDIX B - RIDER NAM

BIANNUAL REPORT

Introduction

ComEd's Rider NAM - Non-AMI Metering ("Rider NAM") requires that each year, beginning in 2014, ComEd submit a report to the Commission on or before April 1 and October 1 that summarizes the operation of the Rider for the preceding period. The biannual report that is filed by April 1 is to be included in the AIPR and will cover the period of July 1 through December 31 of the preceding year. The report that is filed on October 1 will cover the period of January 1 through June 30 of the same calendar year.

The biannual report must provide (a) the number of retail customers to which Rider NAM is applicable; (b) a description of the Company's efforts to address such retail customers; and (c) identification of the Company's costs that are associated with providing service under Rider NAM.

Report

ComEd's Rider NAM Biannual Report for the period July 1, 2020 through December 31, 2020 is provided below.

Commonwealth Edison Company
Rider NAM Biannual Report
Reporting Period: 7/1/20 – 12/31/20

Commonwealth Edison Company
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Executive Summary

Overview

This Rider NAM Biannual report serves to fulfill the requirement of the Rider NAM tariff by providing the following:

(1) The number of retail customers to which Rider NAM is applicable;
(2) A description of the company's efforts to address such retail customers; and
(3) Identification of the company's costs that are associated with providing service under Rider NAM.

Summary

For the 7/1/20 – 12/31/20 reporting period the total costs to provide service under Rider NAM were $773,386. This total reflects operational costs for refusals. Compared to the previous biannual reporting period of 1/1/20 – 6/30/20, which reflected costs of $870,023, total costs decreased by $96,636. The decrease in costs are primarily attributed to:

- Ongoing resource balancing and route optimization within the Meter Reading department.

Rider NAM Refusal and UTC Statistics have not changed since the 1/1/19 to 6/30/19 reporting period as field deployment ended on 6/30/19 with over 4.2 million smart meters safely installed across the system. As such, no new AMI Deployment meter installations were conducted during the current reporting period. In addition, all Unable-To-Complete (UTC) legacy meters were resolved before 6/30/19 through the installation of a smart meter, enrollment in Rider Non-AMI Meter (NAM, meter refusers) or physical removal of the service, where applicable. Therefore, the overall AMI deployment program net refusal rate remains at 0.14%.

Commonwealth Edison Company
Rider NAM Refusal and UTC Statistics[1]: 7/1/20 – 12/31/20

Formula	a	b	c	d	e=a+(c-i)+(d-o)
Month	Meters Installed (1)	Gross Refusals (2)	Gross Refusals Inside Footprint (3)	Gross UTCs (4)	Meters Attempted (5)
Jul	-	-	-	-	-
Aug	-	-	-	-	-
Sep	-	-	-	-	-
Oct	-	-	-	-	-
Nov	-	-	-	-	-
Dec	-	-	-	-	-
Total	**-**	**-**	**-**	**-**	**-**

	Formula	f=b/a	g=b/e	h	i	j=h/b	k=(b-h)/a	l=(b-h)/e
Refusals	Month	Gross Refusal Rate vs. Installs	Gross Refusal Rate vs. Meters Attempted	Conversions (6)	Conversions Inside Footprint (7)	Conversion Rate	Net Refusal Rate vs. Installs	Net Refusal Rate vs. Meters Attempted
	Jul	#DIV/0!	#DIV/0!	-	-	#DIV/0!	#DIV/0!	#DIV/0!
	Aug	#DIV/0!	#DIV/0!	-	-	#DIV/0!	#DIV/0!	#DIV/0!
	Sep	#DIV/0!	#DIV/0!	-	-	#DIV/0!	#DIV/0!	#DIV/0!
	Oct	#DIV/0!	#DIV/0!	-	-	#DIV/0!	#DIV/0!	#DIV/0!
	Nov	#DIV/0!	#DIV/0!	-	-	#DIV/0!	#DIV/0!	#DIV/0!
	Dec	#DIV/0!	#DIV/0!	-	-	#DIV/0!	#DIV/0!	#DIV/0!
	Total	**#DIV/0!**	**#DIV/0!**	**-**	**-**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**

	Formula	m=d/a	n=d/e	o	p=o/d	q=(d-o)/a	r=(d-o)/e
UTCs	Month	Gross UTC Rate vs. Installs	Gross UTC Rate vs. Meters Attempted	UTC Completions	UTC Completion Rate[1]	Net UTC Rate vs. Installs	Net UTC Rate vs. Meters Attempted
	Jul	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!
	Aug	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!
	Sep	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!
	Oct	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!
	Nov	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!
	Dec	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!
	Total	**#DIV/0!**	**#DIV/0!**	**-**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**

	Formula	s=(b+d)/a	t=(b+d)/e	u=h+o	v=u/(b+d)	w=(b+d-h-o)/a	x = (b+d-h-o)/e
ALL (Refusals and UTCs)	Month	Gross Combined Rate vs. Installs	Gross Combined Rate vs. Meters Attempted	Conversions and UTC Completions	Conversion and UTC Completion Rate	Net Combined Rate vs. Installs	Net Combined Rate vs. Meters Attempted
	Jul	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!
	Aug	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!
	Sep	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!
	Oct	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!
	Nov	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!
	Dec	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!
	Total	**#DIV/0!**	**#DIV/0!**	**-**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**

[1]Columns f, g, j, k, l, m, n, p, q, r, s, t, v, w, x result in a "#DIV/0!" error message due to no (zero) *new:* Meters Installed (Column a), Gross Refusals (Column b), Gross Refusals Inside Footprint (Column c), Gross UTCs (Column d), Conversions (Column h), Conversions Inside Footprint (Column i), and UTC Completions (Column i). Since the AMI deplument program concluded 6/30/19, no new meters were installed as part of that program during the current reporting period.

Commonwealth Edison Company
Rider NAM Refusal and UTC Statistics[2]: Pilot – 12/31/20

Formula	a	b	c	d	e=a+(c-i)+(d-o)
Total	Meters Installed (1)	Gross Refusals (2)	Gross Refusals Inside Footprint (3)	UTCs (4)	Meters Attempted (5)
Pilot - 12/31/20	**4,108,676**	**10,797**	**10,797**	**293,139**	**4,126,026**

	Formula	f=b/a	g=b/e	h	i	j=h/b	k=(b-h)/a	l=(b-h)/e
Refusals	Total	Gross Refusal Rate vs. Installs	Gross Refusal Rate vs. Meters Attempted	Conversions (6)	Conversions Inside Footprint (7)	Conversion Rate	Net Refusal Rate vs. Installs	Net Refusal Rate vs. Meters Attempted
	Pilot - 12/31/20	**0.26%**	**0.26%**	**5,175**	**5,175**	**47.93%**	**0.14%**	**0.14%**

	Formula	m=d/a	n=d/e	o	p=o/d	q=(d-o)/a	r=(d-o)/e
UTCs	Total	Gross UTC Rate vs. Installs	Gross UTC Rate vs. Meters Attempted	UTC Completions	UTC Completion Rate	Net UTC Rate vs. Installs	Net UTC Rate vs. Meters Attempted
	Pilot - 12/31/20	**7.13%**	**7.10%**	**281,411**	**96.00%**	**0.29%**	**0.28%**

	Formula	s=(b+d)/a	t=(b+d)/e	u=h+o	v=u/(b+d)	w=(b+d-h-o)/a	x = (b+d-h-o)/e
ALL (Refusals and UTCs)	Total	Gross Combined Rate vs. Installs	Gross Combined Rate vs. Meters Attempted	Conversions and UTC Completions	Conversion and UTC Completion Rate	Net Combined Rate vs. Installs	Net Combined Rate vs. Meters Attempted
	Pilot - 12/31/20	**7.40%**	**7.37%**	**286,586**	**94.29%**	**0.42%**	**0.42%**

[2]The Rider NAM Refusal and UTC Statistics have not changed since the 1/1/19 to 6/30/19 reporting period as field deployment ended on 6/30/19 and no new project meter installations were conducted during this reporting period.

Commonwealth Edison Company
Rider NAM Refusal and UTC Statistics

(1) **Meters Installed** means the number of AMI Meters that have replaced analog meters. Meters installed is the standard denominator used in refusal and UTC rate equations due to simplicity, easier tracking, and universal understanding. All ComEd's relevant performance metrics are based on meters installed.

(2) **Refusals** refers to the number of retail customers who indicated to ComEd that they refuse(d) the installation of the AMI Meter through communication to a field technician, field supervisor, CSR, project manager, or other ComEd representative. This number includes both refusals from inside the deployment area and outside the deployment area.

(3) **Refusals Inside Footprint** refers to the number of retail customers who indicated to ComEd that they refuse(d) the installation of the AMI Meter through communication to a field technician, field supervisor, CSR, project manager, or other ComEd representative and were located within the meter deployment area.

(4) **UTC**s are installations that ComEd was Unable To Complete (UTC) due to a lack of access (e.g. dog in yard, gate locked, etc.).

(5) **Meters Attempted** refers to the number of unique meters that were intended to be installed - i.e. if a tech tried to install a meter on an account three times, each of which resulted in a UTC, this would count as one meter attempt. While more exact, Meters Attempted is not the standard denominator for rate equations. This is due to the margin of error associated with counting meters multiple times (UTC attempts and refusals).

(6) **Conversions** refer to customers who actively refused the installation of an AMI Meter but subsequently decided to accept installation of the AMI Meter. Conversions are recorded on the date the customer accepts installation of the AMI Meter. Activities that support a customer converting include mailing notification letters and making outbound phone calls in an attempt to schedule appointments.

(7) **Conversions Inside Footprint** refers to customers who refused the installation of an AMI Meter, but subsequently decided to accept installation of the AMI Meter. These customers are specific to the area where meters are currently being installed and not those areas with future deployment dates.

Commonwealth Edison Company
Rider NAM Refusal and UTC Statistics (Continued)

Mass Deployment Standard Refusal Process:

1. Refusal was received through the AMI Call Center or the Field

2. Call Service Representative / Field Technician attempted to educate the customer on AMI meters

3. If the customer continued to refuse, the refusal was escalated to the AMI Project Customer Experience team. A supervisor/analyst spoke with the customer in an attempt to get the refusing customer to accept installation of the AMI meter by addressing their specific concerns around the installation

4. If the customer still continued to refuse, the supervisor/analyst notified the customer of the fee associated with refusing the AMI Meter and that notifications would be sent to the customer confirming their refusal and the associated charges

5. Over the course of four months, two notification letters were sent to the refusal customer

6. After receiving the two notification letters, the charge was applied to the customer's bill on their fifth billing cycle

Mass Deployment UTC Refusal Process:

1. Meter could not be exchanged due to lack of access and a door hanger was left for the customer

2. AMI Deployment reached out to customer via phone call to gain access to meter and make a second attempt to gain access to the meter. If unable-to-complete a second time, another door hanger was placed and the customer was scheduled to receive the UTC Letters

3. Customer could receive up to four notification letters, one for each month until access to meter is received

4. After receiving four notification letters, the charge was applied to the fifth bill rendered since the first UTC Letter

Commonwealth Edison Company
Rider NAM Cost Report: Summary

Rider NAM Costs (7/1/20 – 12/31/20)

Summary of Costs by Department

Meter Reading	$	762,538.61	See Page 14
Field and Meter Services	$	10,659.36	See Page 16
Deployment	$	-	See Page 18
AMI Operations	$	-	See Page 19
Customer Experience	$	-	See Page 22
Billing	$	188.49	See Page 23
Total Cost*	**$**	**773,386.46**	

*Total cost includes adjusted labor rates for current reporting period.

Commonwealth Edison Company
Meter Reading Cost Breakdown

Meter Reading[3]

Variable	Formula	Value		Unit
Total Meter Reading Costs (DVA)	a1	$	17,667.57	Dollars
Total Meter Reading Costs (CS)	a2	$	49,943.89	Dollars
Total Meter Reading Costs (GSA)	a3	$	77,852.68	Dollars
Total Meter Reading Costs (CRE)	a4	$	28,450.78	Dollars
Total Meter Reading Costs (NWA)	a5	$	42,440.59	Dollars
Total Meter Reading Costs (CN)	a6	$	107,325.25	Dollars
Total Meter Reading Costs (LIB)	a7	$	56,579.60	Dollars
Total Meter Reading Costs (NSA)	a8	$	43,754.42	Dollars
Total Meter Reading Costs (ROC)	a9	$	42,118.31	Dollars
Total Meter Reading Costs (BOL)	a10	$	50,563.42	Dollars
Total Meter Reading Costs (UPA)	a11	$	35,881.04	Dollars
Total Meter Reading Costs (AUR)	a12	$	21,316.82	Dollars
Total Meter Reading Costs (ELG)	a13	$	43,784.16	Dollars
Total Meter Reading Costs (JOL)	a14	$	87,919.21	Dollars
Total Meter Reading Costs (DIX)	a15	$	24,120.27	Dollars
Total Meter Reading Costs (FRE)	a16	$	5,965.51	Dollars
Total Meter Reading Costs (STR)	a17	$	8,864.50	Dollars
Total Meter Reading Costs (WDS)	a18	$	52,769.75	Dollars
Total Meter Reading Costs (DEK)	a19	$	31,112.41	Dollars

*Continued following page

[3]DVA = Maywood Operating Area, CS = Chicago South Operating Area, GSA = Glenbard Operating Area, CRE = Crestwood Operating Area, NWA = Mt. Prospect Operating Area, CN = Chicago North Operating Area, LIB = Libertyville Operating Area, NSA = Northbrook Operating Area, ROC= Rockford Operating Area, BOL = Bolingbrook Operating Area, UPA = University Park Operating Area, AUR = Aurora Operating Area, ELG = Elgin Operating Area, JOL = Joliet Operating Area, DIX = Dixon Operating Area, FRE = Freeport Operating Area, STR = Streator Operating Area, WDS = Woodstock/Crystal Lake Operating Area, DEK = DeKalb Operating Area.

Commonwealth Edison Company
Meter Reading Cost Breakdown (Continued [1])

Variable	Formula	Value	Unit
Total Meter Reads (DVA)	b1	758	Meter Reads
Total Meter Reads (CS)	b2	2,146	Meter Reads
Total Meter Reads (GSA)	b3	3,355	Meter Reads
Total Meter Reads (CRE)	b4	1,223	Meter Reads
Total Meter Reads (NWA)	b5	1,814	Meter Reads
Total Meter Reads (CN)	b6	4,692	Meter Reads
Total Meter Reads (LIB)	b7	2,427	Meter Reads
Total Meter Reads (NSA)	b8	1,880	Meter Reads
Total Meter Reads (ROC)	b9	1,806	Meter Reads
Total Meter Reads (BOL)	b10	2,171	Meter Reads
Total Meter Reads (UPA)	b11	1,541	Meter Reads
Total Meter Reads (AUR)	b12	917	Meter Reads
Total Meter Reads (ELG)	b13	1,878	Meter Reads
Total Meter Reads (JOL)	b14	3,776	Meter Reads
Total Meter Reads (DIX)	b15	1,035	Meter Reads
Total Meter Reads (FRE)	b16	256	Meter Reads
Total Meter Reads (STR)	b17	380	Meter Reads
Total Meter Reads (WDS)	b18	2,264	Meter Reads
Total Meter Reads (DEK)	b19	1,336	Meter Reads

*Continued following page

Commonwealth Edison Company
Meter Reading Cost Breakdown (Continued [2])

Variable	Formula	Value	Unit
Cost per Meter Read (DVA)	a1/b1	$ 23.31	Dollars/Meter Read
Cost per Meter Read (CS)	a2/b2	$ 23.27	Dollars/Meter Read
Cost per Meter Read (GSA)	a3/b3	$ 23.20	Dollars/Meter Read
Cost per Meter Read (CRE)	a4/b4	$ 23.26	Dollars/Meter Read
Cost per Meter Read (NWA)	a5/b5	$ 23.40	Dollars/Meter Read
Cost per Meter Read (CN)	a6/b6	$ 22.87	Dollars/Meter Read
Cost per Meter Read (LIB)	a7/b7	$ 23.31	Dollars/Meter Read
Cost per Meter Read (NSA)	a8/b8	$ 23.27	Dollars/Meter Read
Cost per Meter Read (ROC)	a9/b9	$ 23.32	Dollars/Meter Read
Cost per Meter Read (BOL)	a10/b10	$ 23.29	Dollars/Meter Read
Cost per Meter Read (UPA)	a11/b11	$ 23.28	Dollars/Meter Read
Cost per Meter Read (AUR)	a12/b12	$ 23.25	Dollars/Meter Read
Cost per Meter Read (ELG)	a13/b13	$ 23.31	Dollars/Meter Read
Cost per Meter Read (JOL)	a14/b14	$ 23.28	Dollars/Meter Read
Cost per Meter Read (DIX)	a15/b15	$ 23.30	Dollars/Meter Read
Cost per Meter Read (FRE)	a16/b16	$ 23.30	Dollars/Meter Read
Cost per Meter Read (STR)	a17/b17	$ 23.33	Dollars/Meter Read
Cost per Meter Read (WDS)	a18/b18	$ 23.31	Dollars/Meter Read
Cost per Meter Read (DEK)	a19/b19	$ 23.29	Dollars/Meter Read

*Continued following page

Commonwealth Edison Company
Meter Reading Cost Breakdown (Continued [3])

Variable	Formula	Value	Unit
Refusal Meter Reads (DVA)	c1	699	Meter Reads
Refusal Meter Reads (CS)	c2	2,466	Meter Reads
Refusal Meter Reads (GSA)	c3	2,379	Meter Reads
Refusal Meter Reads (CRE)	c4	1,321	Meter Reads
Refusal Meter Reads (NWA)	c5	1,776	Meter Reads
Refusal Meter Reads (CN)	c6	2,810	Meter Reads
Refusal Meter Reads (LIB)	c7	2,312	Meter Reads
Refusal Meter Reads (NSA)	c8	1,619	Meter Reads
Refusal Meter Reads (ROC)	c9	2,490	Meter Reads
Refusal Meter Reads (BOL)	c10	2,232	Meter Reads
Refusal Meter Reads (UPA)	c11	1,564	Meter Reads
Refusal Meter Reads (AUR)	c12	860	Meter Reads
Refusal Meter Reads (ELG)	c13	1,599	Meter Reads
Refusal Meter Reads (JOL)	c14	3,624	Meter Reads
Refusal Meter Reads (DIX)	c15	923	Meter Reads
Refusal Meter Reads (FRE)	c16	274	Meter Reads
Refusal Meter Reads (STR)	c17	350	Meter Reads
Refusal Meter Reads (WDS)	c18	2,221	Meter Reads
Refusal Meter Reads (DEK)	c19	1,275	Meter Reads

*Continued following page

Commonwealth Edison Company
Meter Reading Cost Breakdown (Continued [4])

Variable	Formula	Value	Unit
Refusal Meter Reading Costs (DVA)	(a1/b1)*c1	$ 16,280.73	Dollars
Refusal Meter Reading Costs (CS)	(a2/b2)*c2	$ 57,391.25	Dollars
Refusal Meter Reading Costs (GSA)	(a3/b3)*c3	$ 55,193.02	Dollars
Refusal Meter Reading Costs (CRE)	(a4/b4)*c4	$ 30,718.93	Dollars
Refusal Meter Reading Costs (NWA)	(a5/b5)*c5	$ 41,539.83	Dollars
Refusal Meter Reading Costs (CN)	(a6/b6)*c6	$ 64,264.77	Dollars
Refusal Meter Reading Costs (LIB)	(a7/b7)*c7	$ 53,898.65	Dollars
Refusal Meter Reading Costs (NSA)	(a8/b8)*c8	$ 37,680.00	Dollars
Refusal Meter Reading Costs (ROC)	(a9/b9)*c9	$ 58,070.09	Dollars
Refusal Meter Reading Costs (BOL)	(a10/b10)*c10	$ 51,972.48	Dollars
Refusal Meter Reading Costs (UPA)	(a11/b11)*c11	$ 36,416.58	Dollars
Refusal Meter Reading Costs (AUR)	(a12/b12)*c12	$ 19,991.79	Dollars
Refusal Meter Reading Costs (ELG)	(a13/b13)*c13	$ 37,267.83	Dollars
Refusal Meter Reading Costs (JOL)	(a14/b14)*c14	$ 84,368.45	Dollars
Refusal Meter Reading Costs (DIX)	(a15/b15)*c15	$ 21,498.50	Dollars
Refusal Meter Reading Costs (FRE)	(a16/b16)*c16	$ 6,384.96	Dollars
Refusal Meter Reading Costs (STR)	(a17/b17)*c17	$ 8,153.01	Dollars
Refusal Meter Reading Costs (WDS)	(a18/b18)*c18	$ 51,767.50	Dollars
Refusal Meter Reading Costs (DEK)	(a19/b19)*c19	$ 29,680.22	Dollars

*Continued following page

Commonwealth Edison Company
Meter Reading Cost Breakdown (Continued [5])

Variable	Formula	Value	Unit
Total Refusal Meter Reading Costs	[(a1/b1)*c1]+[(a2/b2)*c2] +[(a3/b3)*c3]+[(a4/b4)*c4]+[(a 5/b5)*c5]+[(a6/b6)*c6]+[(a7/b7)*c7]+[(a8/b8)*c8]+[(a9/b9)*c9] +[(a10/b10)*c10] +[(a11/b11)*c11]+[(a12/b12)*c1 2]+[(a13/b13)*c13]+[(a14/b14)* c14]+[(a15/b15)*c15]+[(a16/b16)*c16]+[(a17/b17)*c17]+[(a18/b 18)*c18]+[(a19/b19)*c19]	$ 762,538.61	Dollars

Definitions

Total Meter Reads: The number of manual meter reads performed due to customer meter refusals or otherwise non-communicating AMI meters.

Refusal Meter Reads: The number of manual meter reads performed on those meters where customers have prevented access or refused.

Commonwealth Edison Company
Basis of Cost Estimate

In accordance with the evidence presented in Docket No. 13-0552 where the Commission approved Rider NAM, the cost of meter reading, meters read, and cost per meter read proposed in the original filing of Rider NAM represent an estimate of the costs ComEd will incur and that would otherwise be borne by other customers in an *end state* of AMI deployment (that is, after deployment is otherwise complete in a region or territory). As deployment proceeded in different operating areas, the variables that affected the cost of a meter refusal fluctuated over time and by operating area. Historically, this data included costs of UTC (Unable to Complete) installations because, during the rollout, disaggregating UTCs cost data from confirmed refusals was not practical. Since ComEd's AMI mass deployment activities concluded June 30, 2019, the actual costs data presented in this Rider NAM Biannual Report are not likely to significantly understate the costs of a meter refusal (as was noted in previous, mass deployment reporting periods).

The current state (Pilot through 12/31/20) of meter refusals remains at a 0.14% meter refusal rate against meter installations. ComEd's efforts to minimize refusals have been effective, and based on ComEd's original Rider NAM filing, this refusal percentage is lower than any scenario presented to the ICC. The monthly refusal charge of $21.53 was based on a selected assumed meter refusal rate of 1.00%. The cost per monthly refusal meter read during this third post-smart meter deployment reporting period indicates the system end state cost is moderating but still higher (i.e., $23.59) than the currently approved monthly Rider NAM fee of $21.53.

ComEd's Meter Reading department will continue to optimize resources and routing which can drive fluctuations in manual costs per read. These refusal costs will continue to be monitored and, if merited, ComEd may consider updating the monthly refusal charge over time.

Commonwealth Edison Company
Field and Meter Services Cost Breakdown

Field and Meter Services

Post-Install CMO

Variable	Formula	Value	Unit
Total Loaded Labor Cost per CMO	a	$ 50.28	Dollars/CMO
# of Post-Install CMO's Performed	b	212	CMO's
Total Post-Install CMO Cost	a*b	**$ 10,659.36**	Dollars

Definitions

CMO: Change Meter Order

Post-Install CMO: When a customer with an AMI meter installed requests to have a non-AMI meter reinstalled

Commonwealth Edison Company
Deployment Cost Breakdown

Deployment

FLS Refusal Time[4]

Variable	Formula	Value	Unit
Reporting Period Net Field Refusals	a	0	Refusals
Avg. FLS Refusal Time	b	0	Hours
Avg. Loaded FLS Labor Rate	c	$ -	Dollars/Hour
Total Labor Cost	a*b*c	**$ -**	Dollars

UTCs – Techs[4]

Variable	Formula	Value	Unit
UTC Tech Headcount	d	0	FTE's
Business Days in Reporting Period	e	0	Days
Avg. Daily Hours per Tech	f	0	Hours
Avg. Loaded Tech Labor Rate	g	$ -	Dollars/Hour
Total Labor Cost	d*e*f*g	**$ -**	Dollars

**Continued following page*

[4]There were no FLS resources or UTC - Techs from AMI Deployment supporting the field refusal process during the reporting period.

Commonwealth Edison Company
Deployment Cost Breakdown (Continued [1])

UTCs – Planners[5]

Variable	Formula	Value	Unit
Tracked Deployment Management Labor Costs	h	$ -	Dollars

Total Costs

Variable	Formula	Value	Unit
Total Costs	(a*b*c)+(d*e*f*g)+h	$ -	Dollars

Definitions

Field Refusals: The number of customers who refuse the Smart Meter installation when an installation tech arrives at their property. This number does not include customers who have accepted the meter after speaking with a field supervisor, a CSR, or a Customer Experience project manager

Average FLS Refusal Time: The average time a field supervisor spends speaking with a customer desiring to refuse the Smart Meter installation

UTC: Unable to complete

UTC Tech: A tech solely devoted to attempting to install meters on properties that were previously noted unable to complete

UTC Planner: A planner solely devoted to coordination with UTC installation techs and back office UTC work

[5]There were no Deployment Management Labor Costs from AMI Deployment supporting the field refusal process during the reporting period.

Commonwealth Edison Company
AMI Operations Cost Breakdown

AMI Operations[6]

UTC Time Allocation

Variable	Formula	Value	Unit
Avg. E03 Headcount	a	0	FTE's
Avg. E03 Loaded Labor Rate	b	$ -	Dollars/FTE
Total Hours Allocated to UTC	c	0	Hours
Total Labor Cost	a*b*c	**$ -**	Dollars

Definitions

UTC Time Allocation: The time associated with tracking down UTC customers, working with municipalities, filing information, data tracking, customer management, etc.

[6]There were no resources from AMI Operations supporting the UTC process for the current reporting period.

Commonwealth Edison Company
Customer Experience Cost Breakdown

Customer Experience[7]

Refusal Work – Management

Variable	Formula	Value	Unit
Tracked Customer Experience Management Labor Costs	a	$0.00	Dollars

Refusal/UTC Calls – CSRs

Variable	Formula	Value	Unit
Avg. Loaded CSR Labor Rate	x	$ -	Dollars/Hour
Avg. Agent Time per Refusal Call	t	0	Hours
AMI Call Center Customer Refusals	j	0	Refusals
Total Labor Cost	x*t*j	$ -	Dollars

Variable	Formula	Value	Unit
Avg. Loaded CSR Labor Rate	x	$ -	Dollars/Hour
Avg. Agent Time per UTC Call	y	0	Hours
UTC Calls	z	0	Calls
Total Labor Cost	x*y*z	$ -	Dollars

*Continued following page

[7]There were no resources from AMI Customer Experience supporting the UTC process during this reporting period.

Commonwealth Edison Company
Customer Experience Cost Breakdown (Continued [1])

UTC Letters – CSRs

Variable	**Formula**	**Value**	**Unit**
UTC Letters Mailed During Reporting Period	u	0	Letters
Avg. Time Allocation per Letter	n	0	Hours
Avg. Loaded CSR Labor Rate	x	$ -	Dollars/Hour
Total Labor Cost	u*n*x	**$ -**	Dollars

Postage Cost per Letter	k	$ -	Dollars/Letter
Total Postage Cost	u*k	**$ -**	Dollars

Total Cost of UTC Letters	(u*n*x)+(u*k)	**$ -**	Dollars

**Continued following page*

Commonwealth Edison Company
Customer Experience Cost Breakdown (Continued [2])

Total Department Cost

Variable	Formula	Value	Unit
Total Customer Experience Cost	a+(x*t*j)+(x*y*z)+[(u*n*x)+(u*k)]	**$0.00**	Dollars

Definitions

Refusal Work - Management: The time associated with speaking to customers and tracking refusal customers and data

AMI Call Center Customer Refusals: The number of customers who refuse the Smart Meter installation by calling into the AMI Call Center. This number does not include customers who have accepted the meter after speaking with a CSR or Customer Experience project manager

UTC Calls: The outbound calls made to UTC customers in an attempt to schedule an installation appointment

UTC Letters: The letters mailed to customers that notify them of ComEd's unsuccessful attempts to install the Smart Meter, the fees associated with refusing the meter due to no access, and the timing of the fees

Average Time Allocation per Letter: The average time spent populating, tracking, printing, and mailing customer letters

Commonwealth Edison Company
Billing Cost Breakdown

Billing

Applying Rider NAM Charges[8]

Variable	Formula	Value	Unit
Refusal/UTC Charges Manually Applied to Bills	a	39	Charges
Time Allocation per Refusal/UTC Charge	b	0.05	Hours
Avg. Loaded Billing Clerk Labor Rate	c	$ 61.74	Dollars/Hour
Total Labor Cost	a*b*c	**$ 120.39**	Dollars

Variable	Formula	Value	Unit
Refusal Letters Mailed During Reporting Period	d	12	Letters
Avg. Time Allocation per Letter	e	0.083	Hours
Avg. Loaded Billing Clerk Labor Rate	f	$ 61.74	Dollars/Hour
Total Labor Cost	d*e*f	**$ 61.49**	Dollars

Postage Cost per Letter	g	$ 0.55	Dollars/Letter
Total Postage Cost	d*g	**$ 6.60**	Dollars

Total Cost of Refusal Letters	(d*e*f)+(d*g)	**$ 68.09**	Dollars

Variable	Formula	Value	Unit
Total Billing Cost	(a*b*c)+[(d*e*f)+(d*g)]	**$ 188.49**	Dollars

Definitions
Refusal Letters: The letters mailed to customers that notify them of their recent decision to refuse the smart meter, the fees associated with refusing, and the timing of the fees.

[8]The Refusal/UTC charge count applies the standard monthly charge ($21.53) and the one time truck roll charge associated with post-installation refusals.

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Smart Grid Advanced Metering Annual Implementation Progress Report

APPENDIX C - AMI VERIFICATION

DECLARATION OF AMI PLAN COMPLETION

STATE OF ILLINOIS)
) ss.
COUNTY OF DUPAGE)

I, David Doherty, being first duly sworn, declare under oath as follows:

1. I am employed as the Director – AMI Operations, Engineering and Analytics of Commonwealth Edison Company ("ComEd").

2. In my current capacity, I am responsible for the ongoing operation and performance of ComEd's AMI network and meters consisting of over 4.2 million smart meters installed across the northern 1/5 of Illinois[1].

3. I am familiar with the facts and circumstances associated with ComEd's Smart Grid Advanced Metering Infrastructure ("AMI") Deployment Plan ("AMI Plan") as modified and revised pursuant to the Illinois Commerce Commission's Final Order dated June 11, 2014 in Docket Nos. 14-0212, 13-0285, 12-0298 (Cons.).

4. I have reviewed ComEd's AMI Plan progress and determined that ComEd's AMI Plan implementation is complete.

5. Under penalties as provided by law pursuant to Section 1-109 of the Code of Civil Procedure, the undersigned certifies that the statements set forth in this instrument are true and correct, except as to matters therein stated to be on information and belief and as to such matters the undersigned certifies as aforesaid that he verily believes the same to be true.

Dated: March 23, 2021

David Doherty

David Doherty

[1] ComEd has deployed AMI meters at 99.9% of metered customer locations. There remain fewer than 6,000 metered locations without AMI meters that involve AMI meter refusing customers. In ICC Docket No. 20-0686, the Commission found that requiring ComEd to "engage in expanded or additional efforts to achieve AMI meter deployments at all the remaining locations by July 2022 would not be reasonable or beneficial from practical perspectives for customers or the utility." *See* Final Order at 8.

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ATTACHMENT 1

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Metrics and Milestones

Metric: 1B

Metric Description: Number of residential customers served by retail electric suppliers for which the supplier has requested monthly Electronic Data Interchange delivery of interval data. Expressed also as a percentage of customers taking supply from a retail electric supplier.

Delivery Service Class	Customer Accounts	Accounts supplied by RES with AMI	Accounts supplied by RES (%)	Accounts for whom RES requested EDI delivery of interval data	% of RES customer
RESIDENTIAL SINGLE	2,308,158	5,244	0.23%	438	8.35%
RESIDENTIAL MULTI	1,205,308	630	0.05%	249	39.52%
RESIDENTIAL SINGLE (SPACE HEAT)	35,539	338	0.95%	6	1.78%
RESIDENTIAL MULTI (SPACE HEAT)	167,748	412	0.25%	20	4.85%
Total Residential	**3,716,753**	**6,624**	**0.18%**	**713**	**10.76%**
COM KWH ONLY	63,675	5	0.01%	0	0.00%
SMALL (0 - 100)	282,460	20,570	7.28%	0	0.00%
MED (100 - 400)	15,571	11,333	72.78%	0	0.00%
LARGE (400 - 1000)	3,839	3,332	86.79%	0	0.00%
VERY LARGE (1000 - 10,000)	1,752	1,625	92.75%	0	0.00%
EXTRA LARGE (> 10 MW)	46	38	82.61%	0	0.00%
HIGH VOLTAGE	94	55	58.51%	0	0.00%
RAILROAD	14	14	100.00%	0	0.00%
DUSK TO DAWN	2,282	249	10.91%	0	0.00%
OTHER LIGHTS	697	52	7.46%	0	0.00%

Metric: 1D

Metric Description: Number of small commercial customers served by retail electric suppliers for which the supplier has requested monthly Electronic Data interchange delivery of interval data. Expressed also as a percentage of customers taking supply from a retail electric supplier.

Delivery Service Class	Customer Accounts	Accounts supplied by RES	Accounts supplied by RES (%)	Accounts for whom RES requested interval data	% of RES customer
COM KWH ONLY (Watt Hour)	87,767	44,637	50.85%	6	0%
SMALL (0 - 100)	278,559	112,907	40.53%	20,574	18.22%
Total	366,326	157,544	43%	20,580	13.06%

Metric: 6C

Metric Description: Number of customers who have accessed the web-based portal as of 12/31/2020 as a percentage of customers with AMI Meters and as a percentage of ComEd customers in that delivery class.

Delivery Class	Customers with AMI Meter	Customers with AMI who Viewed Portal	% AMI Viewed Portal
Single Family W/O Elec. Space Heat	2,297,472	385,323	16.77%
Multi Family W/O Elec. Space Heat	1,192,886	227,233	19.05%
Single Family With Elec. Space Heat	35,303	6,493	18.39%
Multi Family With Elec. Space Heat	166,952	34,660	20.76%

Delivery Class	All Customers	All Customers who Viewed Portal	% Total Viewed Portal
Single Family W/O Elec. Space Heat	2,308,158	386,657	16.75%
Multi Family W/O Elec. Space Heat	1,205,308	229,154	19.01%
Single Family With Elec. Space Heat	35,539	6,522	18.35%
Multi Family With Elec. Space Heat	167,748	34,812	20.75%

Metric: 6D

Metric Description: Number of customers as of 12/31/2020 who can directly access their usage data as a percentage of customers with AMI Meters and as a percentage of ComEd customers in that delivery class.

Delivery Class	Customers with Smart Meter (a)	Customers with a Smart Meter and ComEd Online Account (1) (b)	% (b/a)
Single Family W/O Elec. Space Heat	2,297,472	1,154,456	50.25%
Multi Family W/O Elec. Space Heat	1,192,886	670,149	56.18%
Single Family With Elec. Space Heat	35,303	17,038	48.26%
Multi Family With Elec. Space Heat	166,952	88,876	53.23%
Com KWH Only	62,931	21,509	34.18%
Small Load (0-100)	278,966	115,517	41.41%
Medium Load (100-400)	15,527	5,842	37.62%
Large Load (400-1000)	3,837	1,393	36.30%
Very Large Load (1000-10,000)	1,751	692	39.52%
Extra Large Load (>10MW)	46	22	47.83%
High Voltage	93	40	43.01%
Railroad	14	0	0.00%
Dusk to Dawn Lighting	2,278	194	8.52%
Other Lights	692	96	13.87%
Total	4,058,748	2,075,824	36.44%

Delivery Class	Total Customers (a)	Total ComEd Online Accounts (1) (b)	% (b/a)
Single Family W/O Elec. Space Heat	2,308,158	1,157,024	50.13%
Multi Family W/O Elec. Space Heat	1,205,308	672,559	55.80%
Single Family With Elec. Space Heat	35,539	17,097	48.11%
Multi Family With Elec. Space Heat	167,748	89,052	53.09%
Com KWH Only	63,675	21,580	33.89%
Small Load (0-100)	282,460	115,983	41.06%
Medium Load (100-400)	15,571	5,850	37.57%
Large Load (400-1000)	3,839	1,393	36.29%
Very Large Load (1000-10,000)	1,752	692	39.50%
Extra Large Load (>10 MW)	46	22	47.83%
High Voltage	94	41	43.62%
Railroad	14	0	0.00%
Dusk to Dawn Lighting	2,282	195	8.55%
Other Lights	697	96	13.77%
Total	4,087,183	2,081,584	36.37%

Notes:

(1) Only customers who have created an online ComEd.com account have direct access to energy usage data, but all customers have the option of creating an online account.

Metric: 9

Metrics and Milestones

Metric Description: Reduction in Greenhouse Gas Emissions made possible by smart grid and the success of AMI deployment in enabling consumer benefits from the smart grid.

ComEd has worked with the Citizen's Utility Board *("CUB")* and Environmental Defense Fund *("EDF")* to develop a practical measure of changes in Greenhouse Gas *("GHG")* emissions attributable to smart grid functions enabled by Advanced Metering Infrastructure *("AMI")* deployment and AMI related investments by exploring the capability of calculating GHG emission changes realized through items such as the following:

A. Enabling Energy Efficiency and conservation
B. Reducing peak load and creating a flatter load profile
C. Creating a more predictable load profile
D. Enabling customer Demand-side management and Demand Response
E. Enabling the integration of clean, renewable generation sources
F. Reducing technical electricity losses

In its 2015 AMI Annual Implementation Progress Report *("AIPR")*, ComEd proposed modifications to Metric 9. The reporting of the revised and updated metric began with the 2016 AIPR. ComEd, CUB and EDF continued to work together to identify and define certain details of the methodology to implement the revised GHG emission metric, including as reflected in the Stipulation to Dismiss Proceeding as to Commonwealth Edison Company filed on March 14, 2016 in ICC Docket No. 14-0555.

In ICC Docket No. 18-1725/18-1824 the Commission approved CUB and EDF's recommendation that ComEd calculate the reduction in GHG emissions that result from changes in the behavior of customers participating in Residential Time of Use Pricing Pilot *("Rate RTOUPP"*), using the same methodology used to report changes in GHG emissions as a result of its investments in AMI, and include this GHG impact in Metric 9 of the AIPR. Due to timing of the pilot, this data will be available in the Time-of-Day Pricing Annual Report.

Vehicle GHG Emissions

Meter Reading Vehicles

The Final Meter Reading Vehicle GHG Emissions was reported in the 2020 AIPR filed April 1, 2020, included below for reference:

ComEd refined this calculation in its 2015 AIPR to be the difference between (i) the previous year's GHG emissions associated with meter reading vehicles at each operating center that had AMI meter deployment during that year or in a prior year and (ii) a baseline defined as the three (3) year average GHG vehicle emissions associated with meter reading vehicles at each such operating center. GHG emissions are calculated based on fuel consumption and the emission factors from the Climate Registry used by Exelon Corporation.

The vehicle GHG emissions metric methodology includes all vehicles that are used to read meters because a significant number of non-fleet vehicles are utilized to read electric meters. When a ComEd-owned vehicle is no longer needed in one operating center, it is commonly redeployed to another operating center, offsetting the use of non-fleet vehicles *(which are not in the fleet data)*.

2019 Meter Reading Vehicle GHG Emissions Calculation

Operating Center	2017 (a)	2018 (b)	2019 (c)	Average (d)	2019 Emissions ($MT\ CO_2$) (f)=(c)*(e)	Avg Emissions ($MT\ CO_2$) (g)=(d)*(e)	Emissions ($MT\ CO_2\Delta$) (f)-(g)
Chicago North	4,314	3,871	2,201	3,462	20	32	-12
Chicago South	5,213	9,273	9,101	7,862	83	72	11
Mt Prospect	1,106	563	803	824	7	8	-0.2
Northbrook	6,149	889	1,159	2,732	11	25	-14
Libertyville	6,806	870	2,012	3,229	18	29	-11
Maywood	1,471	404	574	816	5	7	-2
Glenbard	4,177	3,797	1,209	3,061	11	28	-17
Joliet	16,709	15,985	6,960	13,218	64	121	-57
University Park / Bradley	11,602	5,203	4,593	7,133	42	65	-23
Crestwood	2,884	731	364	1,326	3	12	-9
Bolingbrook	4,529	281	1,000	1,936	9	18	-9
Dekalb	8,775	11,092	8,682	9,516	79	87	-8
Dixon	8,703	5,165	3,101	5,656	28	52	-23
Freeport	5,320	3,096	516	2,977	5	27	-22
Rockford	11,890	8,308	7,052	9,083	64	83	-19
Aurora	3,925	1,914	799	2,213	7	20	-13
Elgin	5,700	3,124	2,716	3,847	25	35	-10
Streator	1,141	272	45	486	0	4	-4
Woodstock	5,826	9,259	6,494	7,193	59	66	-6
						Total	**-248**

Emission Factor[1] ($MT\ CO_2$/gal) (e)
0.00913

With the completion of AMI mass deployment, the overall results show a reduction in GHG emissions for meter reading functions coincident to AMI deployment for eighteen operating centers, while one operating center shows a slight increase. As of the end 2019 all Meter Reading vehicles have been reassigned to Field and Meter Services.

Outage and Maintenance Vehicles

This calculation for the 2020 AIPR measures reduction in GHG emissions due to dispatching fewer outage and maintenance related vehicles due to the availability of AMI. When a customer calls to report an outage, ComEd utilizes AMI technology by pinging the AMI meter and determines if the outage is taking place on the ComEd system. If the reported outage is the customer's responsibility, a ComEd vehicle can avoid being dispatched. GHG emissions are calculated based on fuel consumption and the emission factors from the Climate Registry used by Exelon Corporation. The overall results show a reduction in GHG emissions for outage and maintenance functions due to AMI deployment for each operating center.

2020 Outage and Maintenance Vehicle GHG Emissions Calculation

Operating Center	Fuel Qty *(lbs/gal)* (a)	# of Trips (b)	# of Reduced Truck Rolls (c)	2020 Emissions *($MT\ CO_2$)* (e)=((a)/(b)*(c))*(d)
Chicago North	37,493	7,166	9,781	-467
Chicago South	47,750	9,352	9,419	-439
Mt Prospect	33,312	4,208	4,078	-295
Northbrook / Skokie	26,887	3,116	2,892	-228
Libertyville	43,365	3,703	4,727	-505
Maywood	7,041	4,159	3,855	-60
Glenbard	23,855	4,838	4,312	-194
Joliet / Streator	38,477	6,862	5,487	-281
University Park	37,165	4,503	5,231	-394
Crestwood	22,700	5,094	6,807	-277
Bolingbrook	25,874	2,609	3,268	-296
Dekalb	19,719	2,082	1,365	-118
Dixon / Freeport	57,711	4,203	2,541	-319
Rockford	32,194	4,433	2,849	-189
Aurora	17,566	1,717	2,800	-262
Elgin	15,973	2,556	2,410	-138
Woodstock	16,889	2,375	2,228	-145
			Total	-4,605

Emission Factor[1] *($MT\ CO_2/gal$)* (d)
0.00913

Bottom-Up Approach

For this approach, ComEd calculated the estimated load differences between those customers with AMI and with IDR meters by operating center where deployment has taken place. These load differences will include total load reduction, and to the extent data availability and reliability permits, load shifting and conservation effects. Based on these differences in load by geographic area or customer program, the associated change in GHG emissions was estimated.

Peak Time Savings Program

Load impacts were estimated based on a difference-in-differences calculation between participants and a control group of non-participants with AMI meters that have similar load shapes during peak time savings event hours *(as described in Rider PTR – Peak Time Rebate ("Rider PTR"))*. The results for this calculation did not take into effect pre-event or post-event changes in load *(e.g. pre-cooling, changes due to notification of event, and post-event bounce back)*.

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2020 Peak Time Savings Calculations

Delivery Service Classes	Date	Hour Ending	Non-Participant Load *(kW)* (a)	Participant Load *(kW)* (b)	Event Impact *(kW)* (c)=(a)-(b)	MER[2] *(MT CO_2/MWh)* (d)	MER[3] *(MT CO_2/MWh)* (e)	# of Participants[4] (f)	Emissions[5] *(MT $CO_2\Delta$)* (g)=(c)*(d)*(f) / 1000	Emissions[6] *(MT $CO_2\Delta$)* (h)=(c)*(e)*(f) / 1000
Single Family without Electric Space Heat	6/19/2020	14	2.45	2.29	-0.16	0.614	0.605	197,214	-19.365	-19.077
		15	2.45	2.29	-0.16	0.614	0.664	197,214	-19.365	-20.952
		16	2.45	2.29	-0.16	0.614	0.618	197,214	-19.365	-19.510
		17	2.45	2.29	-0.16	0.614	0.543	197,214	-19.365	-17.124
	7/7/2020	16	2.45	2.29	-0.16	0.664	0.664	197,214	-20.954	-20.952
		17	2.45	2.29	-0.16	0.664	0.694	197,214	-20.954	-21.890
		18	2.45	2.29	-0.16	0.664	0.689	197,214	-20.954	-21.734
		19	2.45	2.29	-0.16	0.664	0.710	197,214	-20.954	-22.418
	7/22/2020	14	2.45	2.29	-0.16	0.664	0.761	197,214	-20.954	-24.018
		15	2.45	2.29	-0.16	0.664	0.749	197,214	-20.954	-23.632
		16	2.45	2.29	-0.16	0.664	0.606	197,214	-20.954	-19.109
		17	2.45	2.29	-0.16	0.664	0.700	197,214	-20.954	-22.084
		18	2.45	2.29	-0.16	0.664	0.677	197,214	-20.954	-21.361
		19	2.45	2.29	-0.16	0.664	0.744	197,214	-20.954	-23.478
	8/27/2020	13	2.45	2.29	-0.16	0.649	0.749	197,214	-20.482	-23.641
		14	2.45	2.29	-0.16	0.649	0.731	197,214	-20.482	-23.072
		15	2.45	2.29	-0.16	0.649	0.677	197,214	-20.482	-21.351
		16	2.45	2.29	-0.16	0.649	0.672	197,214	-20.482	-21.208
	9/3/2020	14	2.45	2.29	-0.16	0.561	0.496	197,214	-17.705	-15.637
		15	2.45	2.29	-0.16	0.561	0.490	197,214	-17.705	-15.450
		16	2.45	2.29	-0.16	0.561	0.430	197,214	-17.705	-13.582
		17	2.45	2.29	-0.16	0.561	0.401	197,214	-17.705	-12.659
		18	2.45	2.29	-0.16	0.561	0.561	197,214	-17.705	-17.714
								Subtotal	-457	-462

Delivery Service Classes	Date	Hour Ending	Non-Participant Load *(kW)* (a)	Participant Load *(kW)* (b)	Event Impact *(kW)* (c)=(a)-(b)	MER[2] *(MT CO_2/MWh)* (d)	MER[3] *(MT CO_2/MWh)* (e)	# of Participants[4] (f)	Emissions[5] *(MT $CO_2\Delta$)* (g)=(c)*(d)*(f) / 1000	Emissions[6] *(MT $CO_2\Delta$)* (h)=(c)*(e)*(f) / 1000
Multi Family without Electric Space Heat	6/19/2020	14	0.93	0.89	-0.04	0.614	0.605	78,220	-1.920	-1.892
		15	0.93	0.89	-0.04	0.614	0.664	78,220	-1.920	-2.078
		16	0.93	0.89	-0.04	0.614	0.618	78,220	-1.920	-1.935
		17	0.93	0.89	-0.04	0.614	0.543	78,220	-1.920	-1.698
	7/7/2020	16	0.93	0.89	-0.04	0.664	0.664	78,220	-2.078	-2.078
		17	0.93	0.89	-0.04	0.664	0.694	78,220	-2.078	-2.171
		18	0.93	0.89	-0.04	0.664	0.689	78,220	-2.078	-2.155
		19	0.93	0.89	-0.04	0.664	0.710	78,220	-2.078	-2.223
	7/22/2020	14	0.93	0.89	-0.04	0.664	0.761	78,220	-2.078	-2.382
		15	0.93	0.89	-0.04	0.664	0.749	78,220	-2.078	-2.343
		16	0.93	0.89	-0.04	0.664	0.606	78,220	-2.078	-1.895
		17	0.93	0.89	-0.04	0.664	0.700	78,220	-2.078	-2.190
		18	0.93	0.89	-0.04	0.664	0.677	78,220	-2.078	-2.118
		19	0.93	0.89	-0.04	0.664	0.744	78,220	-2.078	-2.328
	8/27/2020	13	0.93	0.89	-0.04	0.649	0.749	78,220	-2.031	-2.344
		14	0.93	0.89	-0.04	0.649	0.731	78,220	-2.031	-2.288
		15	0.93	0.89	-0.04	0.649	0.677	78,220	-2.031	-2.117
		16	0.93	0.89	-0.04	0.649	0.672	78,220	-2.031	-2.103
	9/3/2020	14	0.93	0.89	-0.04	0.561	0.496	78,220	-1.756	-1.551
		15	0.93	0.89	-0.04	0.561	0.490	78,220	-1.756	-1.532
		16	0.93	0.89	-0.04	0.561	0.430	78,220	-1.756	-1.347
		17	0.93	0.89	-0.04	0.561	0.401	78,220	-1.756	-1.255
		18	0.93	0.89	-0.04	0.561	0.561	78,220	-1.756	-1.756
								Subtotal	-45	-46

Delivery Service Classes	Date	Hour Ending	Non-Participant Load *(kW)* (a)	Participant Load *(kW)* (b)	Event Impact *(kW)* (c)=(a)-(b)	MER[2] *(MT CO_2/MWh)* (d)	MER[3] *(MT CO_2/MWh)* (e)	# of Participants[4] (f)	Emissions[5] *(MT $CO_2\Delta$)* (g)=(c)*(d)*(f) / 1000	Emissions[6] *(MT $CO_2\Delta$)* (h)=(c)*(e)*(f) / 1000
Single Family with Electric Space Heat	6/19/2020	14	2.22	2.08	-0.14	0.614	0.605	3,336	-0.287	-0.282
		15	2.22	2.08	-0.14	0.614	0.664	3,336	-0.287	-0.310
		16	2.22	2.08	-0.14	0.614	0.618	3,336	-0.287	-0.289
		17	2.22	2.08	-0.14	0.614	0.543	3,336	-0.287	-0.253
	7/7/2020	16	2.22	2.08	-0.14	0.664	0.664	3,336	-0.310	-0.310
		17	2.22	2.08	-0.14	0.664	0.694	3,336	-0.310	-0.324
		18	2.22	2.08	-0.14	0.664	0.689	3,336	-0.310	-0.322
		19	2.22	2.08	-0.14	0.664	0.710	3,336	-0.310	-0.332
	7/22/2020	14	2.22	2.08	-0.14	0.664	0.761	3,336	-0.310	-0.355
		15	2.22	2.08	-0.14	0.664	0.749	3,336	-0.310	-0.350
		16	2.22	2.08	-0.14	0.664	0.606	3,336	-0.310	-0.283
		17	2.22	2.08	-0.14	0.664	0.700	3,336	-0.310	-0.327
		18	2.22	2.08	-0.14	0.664	0.677	3,336	-0.310	-0.316
		19	2.22	2.08	-0.14	0.664	0.744	3,336	-0.310	-0.347
	8/27/2020	13	2.22	2.08	-0.14	0.649	0.749	3,336	-0.303	-0.350
		14	2.22	2.08	-0.14	0.649	0.731	3,336	-0.303	-0.341
		15	2.22	2.08	-0.14	0.649	0.677	3,336	-0.303	-0.316
		16	2.22	2.08	-0.14	0.649	0.672	3,336	-0.303	-0.314
	9/3/2020	14	2.22	2.08	-0.14	0.561	0.496	3,336	-0.262	-0.231
		15	2.22	2.08	-0.14	0.561	0.490	3,336	-0.262	-0.229
		16	2.22	2.08	-0.14	0.561	0.430	3,336	-0.262	-0.201
		17	2.22	2.08	-0.14	0.561	0.401	3,336	-0.262	-0.187
		18	2.22	2.08	-0.14	0.561	0.561	3,336	-0.262	-0.262
								Subtotal	-7	-7

Delivery Service Classes	Date	Hour Ending	Non-Participant Load *(kW)* (a)	Participant Load *(kW)* (b)	Event Impact *(kW)* (c)=(a)-(b)	MER[2] *(MT CO_2/MWh)* (d)	MER[3] *(MT CO_2/MWh)* (e)	# of Participants[4] (f)	Emissions[5] *(MT $CO_2\Delta$)* (g)=(c)*(d)*(f) / 1000	Emissions[6] *(MT $CO_2\Delta$)* (h)=(c)*(e)*(f) / 1000
Multi Family with Electric Space Heat	6/19/2020	14	0.97	0.91	-0.06	0.614	0.605	11,110	-0.409	-0.403
		15	0.97	0.91	-0.06	0.614	0.664	11,110	-0.409	-0.443
		16	0.97	0.91	-0.06	0.614	0.618	11,110	-0.409	-0.412
		17	0.97	0.91	-0.06	0.614	0.543	11,110	-0.409	-0.362
	7/7/2020	16	0.97	0.91	-0.06	0.664	0.664	11,110	-0.443	-0.443
		17	0.97	0.91	-0.06	0.664	0.694	11,110	-0.443	-0.462
		18	0.97	0.91	-0.06	0.664	0.689	11,110	-0.443	-0.459
		19	0.97	0.91	-0.06	0.664	0.710	11,110	-0.443	-0.474
	7/22/2020	14	0.97	0.91	-0.06	0.664	0.761	11,110	-0.443	-0.507
		15	0.97	0.91	-0.06	0.664	0.749	11,110	-0.443	-0.499
		16	0.97	0.91	-0.06	0.664	0.606	11,110	-0.443	-0.404
		17	0.97	0.91	-0.06	0.664	0.700	11,110	-0.443	-0.467
		18	0.97	0.91	-0.06	0.664	0.677	11,110	-0.443	-0.451
		19	0.97	0.91	-0.06	0.664	0.744	11,110	-0.443	-0.496
	8/27/2020	13	0.97	0.91	-0.06	0.649	0.749	11,110	-0.433	-0.499
		14	0.97	0.91	-0.06	0.649	0.731	11,110	-0.433	-0.487
		15	0.97	0.91	-0.06	0.649	0.677	11,110	-0.433	-0.451
		16	0.97	0.91	-0.06	0.649	0.672	11,110	-0.433	-0.448
	9/3/2020	14	0.97	0.91	-0.06	0.561	0.496	11,110	-0.374	-0.330
		15	0.97	0.91	-0.06	0.561	0.490	11,110	-0.374	-0.326
		16	0.97	0.91	-0.06	0.561	0.430	11,110	-0.374	-0.287
		17	0.97	0.91	-0.06	0.561	0.401	11,110	-0.374	-0.267
		18	0.97	0.91	-0.06	0.561	0.561	11,110	-0.374	-0.374
								Subtotal	-10	-10

	Emissions[5] ($MTCO_2\Delta$) (g)=(c)*(d)*(f) / 1000	Emissions[6] ($MTCO_2\Delta$) (h)=(c)*(e)*(f) / 1000
Total	-519	-525

The overall results show the load for participants were lower than non-participants during each of the hours of the event days.

Residential Hourly Pricing
Load impacts were estimated by hour using existing load impact models and actual 2020 hourly weather, hourly prices and alert hours.

2020 Hourly Pricing Calculations

∑Baseline Load *(kW)* (a)	∑Actual Load *(kW)* (b)	∑Load Δ *(kWh)* (c)=(a)-(b)	2020 Emissions (MT CO2) (d)=(c)*MER[2]	2020 Emissions (MT CO2) (e)=(c)*MER[3]	# of Participants[4] (f)	Emissions[5] (MT CO2Δ) (d)*(f)	Emissions[6] (MT CO2Δ) (e)*(f)
10,638	10,062	576	-0.32	-0.35	30,502	-9,820	-10,534

The overall results show that participants reduced their peak loads for all four seasons.

Top-Down Approach

For changes in GHG emissions based on aggregate load, ComEd calculates the load differences between those customers with AMI meters and those without AMI meters and any associated impact on GHG emissions. ComEd started reporting the results of this calculation in the 2016 AIPR.

Approach 1

An average load per customer was developed for customers with AMI meters and compared to an average load per customer for IDR *(Interval Demand Recording Meters e.g. non-AMI)* meters during the same calendar year within an operating center and for each delivery service class. These IDR meters were installed more than three years ago to gather interval level data for customer premises that, at one time, participated in the residential hourly pricing program or that are utilized as load research meters. The usage level of these customers tends to be higher than average-sized customers in annual consumption within each operating center. In order to reduce this sample

bias, the loads for the customers with IDR meters were adjusted by using the actual energy sales per customer by operating center and delivery service class.

As deployment of AMI meters in an operating center increased, the number of customers with IDR meters decreased, which reduced the number of operating centers that provide meaningful results. As a result, beginning with 2018, there are no remaining operating centers with meaningful results.

Approach 2

An average load per customer was developed for customers with AMI meters for the most recent year and compared to the same customers who had IDR meters two years prior. Beginning with the 2017 calendar year, due to the number of meters that were exchanged from IDR to AMI prior to 2016, there is insufficient data to complete this calculation.

Marginal Emission Rates

The Marginal Emission Rates are based on publicly available data. Two methods for determining marginal emissions rates and applying them to the bottom up and top down approaches have been identified. Recognizing the limitations of each method, the parties agree that ComEd will apply both, though neither CUB and EDF nor ComEd support both methods. These will continue to be developed amongst the parties in good faith, working together to improve or replace them as better methods and additional public information become available. For any AIPR reporting GHG Metrics that reflect these alternate marginal emission derivation methods, ComEd will also include a detailed explanation of the limitations of each approach.

Method 1: Available Emissions Data Method

Locational Marginal Pricing *("LMP")* is a calculation of the price of electricity based on the marginal energy generating unit *("EGU")* in a particular five-minute interval. While the LMP data are publicly available, the information about the specific EGU is not released by PJM Interconnection, L.L.C. *("PJM")* given the sensitivity and confidentiality of the information.

However, PJM calculates weighted average marginal emissions rates for peak and off-peak hours in each month using five-minute interval data. The most recent report describing these methods and data for 2015-2019 was released on April 9, 2020[17], and PJM has committed to release updated reports on an annual basis. Under this method, ComEd will determine the marginal emissions rates based on these data unless and until more granular marginal emissions rates data from PJM becomes publicly available.

[17]PJM, 2015-2019 CO2, SO2 and NOX Emission Rates (April 9, 2020) available at https://www.pjm.com/-/media/library/reports-notices/special-reports/2019/2019-emissions-report.ashx?la=en

Limitations:
Method 1 uses EGU data to calculate weighted average marginal emission rates for peak and off-peak periods in each month. Therefore, the marginal emission rates are not available for each hour in a calendar year. Also, the marginal emission rates are calculated for the entire PJM footprint, not just ComEd's service territory.

Method 2: Estimated Generation Data Method

While the specific data about EGUs determining LMP for a given interval is not available to the public, they are available to Monitoring Analytics *("MA")*, "the Independent Market Monitor for PJM under a long-term contract."[18] MA has developed a monthly report that summarizes the fuel type of marginal or jointly marginal units in the PJM Real-Time Energy Market for each hour. MA calculates the share of each fuel in each hour based on the number of five minute intervals that a unit burning each fuel type is marginal or jointly marginal.[19] CUB and EDF propose that ComEd use these shares to derive the generation by fuel type per hour in the program year.

This generation by fuel type is multiplied by the Average Heat Rate by Energy Source data published by the U.S. Energy Information Administration *("EIA")*[20], and the Carbon Dioxide Uncontrolled Emissions Factor data *(lbs CO2/million BTU)* published by EIA[21] to derive a weighted average hourly emissions rate for the marginal and jointly marginal units.

Limitations:
Method 2 does not use actual EGU data because this information is not available to the public. Instead, this method uses generation shares for marginal and jointly marginal units and system averages for unit efficiency and carbon emission rates to derive the marginal emission rates by hour. Also, the marginal emission rates are calculated for the entire PJM footprint, not just ComEd's service territory.

[18]Monitoring Analytics, http://www.monitoringanalytics.com/home/index.shtml
[19]Monitoring Analytics – Marginal Fuel Posting,http://www.monitoringanalytics.com/data/marginal_fuel.shtml
[20]http://www.eia.gov/electricity/annual/html/epa_08_02.html

[21]https://www.eia.gov/electricity/annual/html/epa_a_03.html, which compiles data from two sources: 1. Energy Information Administration, Office of Integrated Analysis and Forecasting, Voluntary Reporting of Greenhouse Gases Program, Table of Fuel and Energy Source: Codes and Emission Coefficients; available at: https://www.eia.gov/environment/emissions/co2_vol_mass.php ; and 2. U.S. Environmental Protection Agency, AP 42, Fifth Edition (Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources); available at: https://www.epa.gov/air-emissions-factors-and-quantification/ap-42-compilation-air-emissions-factors

Metric: 13

2021 Update: Survey of the Smart Grid Marketplace

By the end of 2020, the more than 107 million installed smart meters reached 75% of U.S. households.[1] The steady deployment of smart meters is a testament to the demonstrated business case for Advanced Metering Infrastructure (AMI) as well as the general consensus that AMI capabilities form the backbone for further grid modernization efforts. Beyond delivering cost savings and improved reliability for utilities and their customers, investments in AMI have enabled a diverse marketplace of products and customer applications seeking to address the 21st century challenges of resilience from extreme weather events, integration of intermittent generation, and management of distributed energy resources (DERs).

AMI encompasses a broad suite of hardware and software, which together, can provide utilities with significantly more granular and real-time monitoring and control of the distribution system. Common components include smart meters, grid sensors, distribution automation devices, communication networks, and data management systems.

There were a few different themes that shaped developments in the smart grid marketplace in 2020. Already picking up momentum early on in 2020, and then spurred on by the Covid-19 pandemic, climate change mitigation ambition ramped up and emerged as the favored approach to prop up the economy and create new jobs, and also a necessary focus for mitigating grid climate risk. Over the course of the year, a slew of utilities announced decarbonization goals in response to public pressure and at times, state and local policy. Thus in 2020, the smart grid marketplace saw a continued focus on solar and storage.

Although distributed energy resources (DER) installations slowed down compared to their pre-pandemic levels, there were some market developments in 2020 that will spur additional value capture for DERs, both in terms of public policy and private investment. On the public policy front, the Federal Energy Regulatory Commission's legal victory upholding Order 841 for energy storage integration into wholesale energy markets was followed up by its issuance of Order 2222, which mandates the same market integration for DERs at large. On the private investment side, the market was focused on partnerships linking DER infrastructure providers with capital investors to bring large-scale distributed energy and virtual power plant (VPP) offerings to customers.[2]

Policy Developments & Net-Zero Pledges

[1] https://www.edisonfoundation.net/-/media/Files/IEI/publications/IEI-Smart-Meters-Infographic_2020.ashx

[2] Greentech Media's Must-Read Grid Edge Stories of 2020 | Greentech Media

The DER market was strengthened in 2020 by two FERC orders that expand whole-sale market access. In July, a federal appeals court upheld FERC's Order 841, clearing the way for transmission grid operators across the country to open their markets to energy storage, including aggregated batteries connected at the distribution grid or behind customers' meters. Wood Mackenzie predicts that Order 841 will open up new opportunities for energy storage developers and aggregators that have primarily relied on state-by-state energy storage mandates and market opportunities to date.[3] In September FERC also passed Order 2222, an outgrowth of Order 841, to open up the country's wholesale energy markets to distributed energy resources (DERs) like rooftop solar, behind-the-meter batteries and electric vehicles. Much like Order 841, this new DER order ushers in a complex set of challenges for grid operators, utilities and state regulators to align the rules for operating behind-the-meter assets connected to low-voltage distribution grids to those governing bulk markets – and thus the timeline for implementation will take some time, even after RTOs and ISOs submit their compliance filings detailing how they plan to implement the new order.[4] 2020 also saw some of the largest utilities in the U.S. throw in their hats on the continued commitment to midcentury decarbonization goals, driven on by a combination of public pressure and energy economics.

In Virginia, the state's Clean Economy Act demands that the state's flagship utility, Dominion Virginia, supply at least 30 percent of its electricity from renewables by 2030 and shut down all carbon-emitting power plants by 2045. That's a far more aggressive plan than Dominion's plan to reach net-zero carbon by 2050, and has forced Dominion into a major departure from previous long-term plans to build new natural-gas plants to supply its Virginia electric customers. Its 2020 integrated resource plan (IRP) sets a goal of nearly 16 gigawatts of solar, 5.1 gigawatts of offshore wind and 2.7 gigawatts of energy storage over the next 15 years, nearly quadruple the targets it laid out just last year.

Meanwhile, North Carolina-based Duke doesn't face the same state mandates that Dominion now faces — but has nonetheless self-imposed net-zero carbon by 2050 goals plans to double its renewables portfolio to 16,000 MW by 2025 through its renewables arm and via large-scale solar deployments. It's also promising to retire its more than 10,000 MW of coal-fired power by decade's end and reduce its Carolinas-based utilities' carbon emissions by 50 percent by 2035. Like Duke, albeit less aggressive in its deadlines for closing its coal plants, Southern Company has set net-zero carbon by 2050 goals, without any impetus from state mandates, that leave much to be desired.

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[3] 'Enormous Step' for Energy Storage as Court Upholds FERC Order 841, Opening Wholesale Markets | Greentech Media

[4] 'Game-Changer' FERC Order Opens Up Wholesale Grid Markets to Distributed Energy Resources | Greentech Media

Finally, both Xcel Energy and New Jersey's Public Service Enterprise Group have moved ahead of their state's policy mandates with their zero-carbon goals, announcing significant reductions in their coal-fired generation capability (down to 0% in Minnesota) and adding thousands of MWs of wind and solar while holding onto their nuclear capabilities.[5]

Grid Planning and Operations

The challenges that solar can create for distribution grid operation in the form of greater and sharper voltage fluctuations for which conventional voltage regulation equipment is not designed are well understood. Growth of other inverter-based DERs, specifically stationary battery storage and EVs, is expected to exacerbate the difficulty of maintaining acceptable power quality and could require expensive upgrades to the distribution system. In anticipation of the increasing demand for real-time and high-resolution visibility, analytics, and control within lower-voltage circuits, the marketplace is introducing solutions to help utilities strengthen their planning and operating capabilities from the substation to the meter, farther toward the "grid-edge".

For example, Itron is focusing their R&D in three main areas: multi-transport network platforms, distributed intelligence (DI) and low voltage distribution management. Their goals are to push more intelligence and autonomous decision making to the grid edge and thus improve the management and optimization of the distribution grid. [6] Some example use cases include high impedance detection, residential neutral fault detection, load disaggregation, location awareness, outage detection and active transformer management. Zpryme and Itron surveyed over 75 utilities to better understand utility strategies around distributed intelligence and found that 70% of utilities surveyed agree that grid-edge technology is critical to the utility's future success and 28-34% plan to use DI to create value for customers through DER / EV identification and load disaggregation. [7]

In a July 2020 Report, Wood Mackenzie predicted that DER would see a 61% reduction from pre-pandemic installations by DER capacity, and not exceed its pre-Coronavirus high until 2024. However, Capital investments in Customer sited DER are expected to double between 2020 and 2025, especially driven by non-solar markets in the residential space. According to the same report, between 2016 and 2025, residential installations will dominate the market accounting for 77% of

[5] The 5 Biggest US Utilities Committing to Zero Carbon Emissions by 2050 | Greentech Media

[6] https://www.smart-energy.com/industry-sectors/energy-grid-management/the-rise-of-renewables-managing-the-impact-on-the-grid/

[7] https://zpryme.com/media/on-the-edge-leveraging-distributed-intelligence/

DER capacity and totaling near 95GW, almost double the amount of DR required to ensure reliability in 2025 according to NERC. [8]

This growth in DER has already and will continue to fuel debates on who should control the Virtual Power Plants (VPPs) enabled by this growing market – centralized utilities or decentralized third parties providing a service-based model. Now, virtual power plants are bidding into wholesale electricity markets in California, New England and other areas, pilot projects are proliferating, and more utilities are, if not yet pursuing the full virtual power plant model, at least investing into or considering the DERMS technology that enables the aggregation of DERs to perform services for the grid. Currently, only about 10% of substations on the grid are connected to a DERMS platform, according to Guidehouse. In addition, Guidehouse forecasts that global revenue for DER management technologies will grow from a little over $800 million today to nearly $6 billion by 2029.[9]

The next five years will see the residential sector grow in importance compared to the commercial and industrial sectors for tapping electric loads to serve grid needs, as the total amount of U.S. load management potential grows to 215 gigawatts by 2025. This is because traditional load-control programs can experience nonresponse issues with direct load control switches, and there is a continued rise in adopting smart thermostats that can precool homes and fine-tune temperature settings, and smart water heaters can preheat and then shut down during winter heating peaks (in large part spurred on by investments in "asset backed flexibility", or DER aggregation, that are aiming to reduce customer costs for DER installations). The available flexibility of homes with Nest, ecobee and Honeywell smart thermostats already exceeds the roughly 8.5 megawatts of direct load control, and states are beginning to mandate grid-responsive water heaters for new installations.[10]

One such example of the growing importance of the residential sector tapping electric loads to serve grid needs, and made even more urgent by the desire to minimize burning of planet warming fuels, is a deal announced in late 2020 between the startup OhmConnect and Sidewalk Infrastructure Partners, which will allocate $80M to provide residents of California with free

[8] "United States Distributed Energy Resources Outlook – Executive Summary Snapsot" Wood Mackenzie, July 2020

[9] Propelling the transition: The battle for control of virtual power plants is just beginning | Utility Dive

[10] 5 Major Trends Driving the $110B US Distributed Energy Resources Market Through 2025 | Greentech Media

controllable devices such as smart plugs and thermostats which OhmConnect can then dispatch to deliver capacity to the grid, in essence forming a distributed, or virtual power plant.[11]

Similarly, Swell Energy has lined up $450 million in financing from Ares Management Corp. and Aligned Climate Capital to give homeowners and business owners batteries and solar systems at no upfront cost, with plans to earn the money back by turning these new DERs into virtual power plants serving utilities' grid needs. Swell packages batteries from partners LG Chem, sonnen and Tesla with rooftop solar and home energy controls in its EnergyShield offering, and charges customers monthly payments based on the size of the system.[12]

On the C&I side, Schneider Electric and "sustainable energy" private equity investor Huck Capital are expanding the concept of modular microgrids, with their creation of a new company called GreenStruxure – an "energy-as-a-service" provider of microgrids for small and medium-sized commercial and industrial (C&I) buildings. GreenStruxure, which has received lead investment from Inclusive Capital Partners' Spring Fund, promises to offer no-money-down solar, battery and on-site generation systems of up to 5 megawatts. Customers will pay them off via long-term power-purchase agreements for energy that's cheaper than what they can get from their utility or the competitive energy market. Schneider Electric will provide prefabricated "energy control centers" — the power conversion and control devices going into buildings, in other words — to ease installation and interconnection complexities. It will also manage commissioning and ongoing operations via its EcoStruxure cloud computing platform.[13]

Data Analytics and Customer Engagement

The ability of energy disaggregation technologies to alleviate energy burdens received spotlight attention in 2020 due to economic hardships brought on by the Covid-19 pandemic, with two-thirds of consumers across the U.S. concerned about their ability to pay their bills, and 16% saying they won't be able to pay their utility bills. While energy efficiency programs have long been praised as the key to lifting the high energy burden[14], it is now clear that increased visibility into energy use is what will help customers stay out of the utility debt hole. Thus, the adoption of home energy management solutions has surged since March. For example. Powerley's utility partners have experienced a 60% increase in adoption of their mobile HEM solutions. With increasing

[11] OhmConnect Raises Infrastructure Funding for 550MW 'Power Plant' of Home Demand Flexibility | Greentech Media

[12] Swell Readies $450M in Financing for Solar-Plus-Battery Virtual Power Plants | Greentech Media

[13] Schneider Electric and Huck Capital Launch 'Energy-as-a-Service' Microgrids for the Mass Market | Greentech Media

[14] https://www.aceee.org/sites/default/files/publications/researchreports/u1602.pdf

energy burdens, the uptick in adoption of energy management has been immediate – and this has helped customers realize up to 10% energy savings.[15]

Early vendors of energy disaggregation technology generated appliance-level usage insights (e.g. AC, dishwasher, lights) by applying machine learning algorithms to smart meter and demographic data. Specifically, disaggregated energy insights were used to improve upon Home Energy Reports and other communications by making the information more relevant than insights gleaned from meter-level data. Starting in 2020, pilots are starting to demonstrate results from this use of disaggregated energy through energy savings, customer engagement, and satisfaction. Innovation in the space also continues to bring new products to the market.

For example, continuing its successes from earlier years, Bidgely in 2020 introduced a suite of new packaged solutions to its existing offerings around customer experience and engagement, Home Energy Reports, CARE call center and EVs. These solutions included Enterprise Analytics, a Virtual Energy Assessment Tool, a Small-medium Business and Commercial Solution, and a Smart Shop marketplace experience. Additionally, Bidgely added more than 11 new global customers like Ameren, Avista, Columbia Gas of Ohio (NiSource), Hydro One and many others to its existing customer base in 2020 and showed strong performance through its digital-only Home Energy Report (HER) program at SoCalGas. [16]

Similarly, Sense Labs expanded its home energy management system in 2020 through its debut of Flex add-on sensors, which bring new, flexible options to smart homes with the Sense Home Energy Monitor. Flex sensors connect to the auxiliary port on the Sense monitor to track alternative electrical sources in the home. They can be used to support 400A split-service panels or monitor important appliances that are on dedicated circuits or track home standby generators if the power goes out. Now Sense has three ways to gain insights into the devices in your home: advanced machine learning automatically identifies devices by their energy signatures; Flex sensors track appliances on dedicated circuits; and Sense integrates with energy-aware smart plugs and smart strips so you can track and control individual devices. This combination of capabilities allows Sense to track individual appliances in the home to see what's on or off in real time and know their energy usage.[17]

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[15] Breaking the energy burden cycle - Powerley

[16] Bidgely Accelerates Beyond 30 Utilities and Energy Retailers Served by UtilityAI™ Platform Worldwide in 2020 | Business Wire

[17] Sense debuts Flex sensors for more flexible ways to track your home's energy, gain new insights, and save on utility bills (prnewswire.com)

In recent years, the energy disaggregation marketplace has also shifted the value case toward solutions to help utilities prepare for the growth in behind-the-meter solar, battery storage, and EV chargers. New partnerships and pilot programs are proliferating to address this growth. One such program is an EV charging program launched by New York-based utilities Central Hudson Gas & Electric and Orange & Rockland in partnership with Uplight and Enel X. The program provides an instant $450 rebate to qualified customers when purchasing select Wi-Fi enabled JuiceBox EV charging stations on the utilities' online Marketplaces and enrolls them in the Charge Smart Program. This program automatically charges the vehicle during times of the cleanest power generation – decreasing the amount of greenhouse gas emissions.[18]

Uplight was also the chosen partner for Consumers Energy in Michigan to empower their customers with personalized tools that are enabling a transition to a cleaner energy future. Leveraging Uplight's personalized suite of tools designed to create end-to-end customer journeys, Consumers Energy will offer an online Marketplace, an opt-in demand response program managed through Orchestrated Energy, Home Energy Reports, and Customer Web Portals.[19] In May, Consumers Energy also announced a partnership with Google and Uplight to provide Google Nest thermostats to up to 100,000 households, helping Michigan residents power through the COVID-19 pandemic by saving energy and money. This offer was a part of Consumers Energy's Clean Energy Plan, which will eliminate coal and achieve net-zero carbon emissions. Google and Uplight helped Consumers Energy provide the Google Nest Thermostat E to customers through July 31.[20]

Metric: 22

Metric Description: Bill impacts associated with the costs for implementation of ComEd's AMI Plan for low, average, and higher usage level customers pursuant to approved rates and surcharges.(1) The usage level calculations will be values for a "typical" customer at the 25th, 50th, and 75th percentile of total usage for each applicable delivery service class.

Change from January 2020 to January 2021 for Typical Customer			
Customer Class or Type	Monthly	Annual	Percent
Single Family Residential Without Electric Space Heat	$ (2.05)	$ (24.59)	-1.94%
Multi-Family Residential Without Electric Space Heat	$ (1.45)	$ (17.38)	-2.78%
Single Family Residential With Electric Space Heat	$ (1.46)	$ (17.47)	-0.84%

[18] Uplight and Enel X Launch Electric Vehicle Charging Pilot Program for New York Hudson Valley Utility Customers | Uplight

[19] Consumers Energy Partners with Uplight to Empower Utility Customers With Personalized Tools Enabling a Transition to Clean Energy | Uplight

[20] News Release | Consumers Energy

Multi-Family Residential With Electric Space Heat	$ (1.17)	$ (14.03)	-1.30%
Non-Residential Watt hour	$ 0.28	$ 3.41	0.56%
Non-Residential Small Load (0-100 kW)	$ (0.41)	$ (4.89)	-0.11%

Change from January 2020 to January 2021 at Percentile (Low/Median/High Usage)				
Customer Class or Type	Percentile	Monthly	Annual	Percent
Single Family Residential Without Electric Space Heat (low usage)	25%	$ (1.90)	$ (22.86)	-2.66%
Single Family Residential Without Electric Space Heat (median usage)	50%	$ (2.02)	$ (24.21)	-2.14%
Single Family Residential Without Electric Space Heat (high usage)	75%	$ (2.15)	$ (25.81)	-1.73%
Multi-Family Residential Without Electric Space Heat (low usage)	25%	$ (1.44)	$ (17.24)	-4.18%
Multi-Family Residential Without Electric Space Heat (median usage)	50%	$ (1.46)	$ (17.50)	-3.15%
Multi-Family Residential Without Electric Space Heat (high usage)	75%	$ (1.49)	$ (17.90)	-2.41%
Single Family Residential With Electric Space Heat (low usage)	25%	$ (1.75)	$ (21.03)	-1.56%
Single Family Residential With Electric Space Heat (median usage)	50%	$ (1.48)	$ (17.70)	-0.94%
Single Family Residential With Electric Space Heat (high usage)	75%	$ (1.26)	$ (15.15)	-0.60%
Multi-Family Residential With Electric Space Heat (low usage)	25%	$ (1.37)	$ (16.46)	-2.37%
Multi-Family Residential With Electric Space Heat (median usage)	50%	$ (1.23)	$ (14.70)	-1.51%
Multi-Family Residential With Electric Space Heat (high usage)	75%	$ (1.07)	$ (12.85)	-0.98%
Nonresidential Watthour (low usage)	25%	$ 0.45	$ 5.40	1.53%
Nonresidential Watthour (median usage)	50%	$ 0.35	$ 4.15	0.78%
Nonresidential Watthour (high usage)	75%	$ 0.19	$ 2.29	0.30%
Nonresidential Small Load (0-100 kW) (low usage)	25%	$ 0.12	$ 1.41	0.13%
Nonresidential Small Load (0-100 kW) (median usage)	50%	$ 0.31	$ 3.73	0.17%
Nonresidential Small Load (0-100 kW) (high usage)	75%	$ (0.01)	$ (0.09)	0.00%

[1] The customer rate impacts reflect a comparison of ComEd's total bill year-to-year for the rates in effect in January 2020 to rates in effect in January 2021 (including energy, supply and delivery, of which, AMI is a component). This is the same manner in which ComEd has been responding to this metric in previous submissions, as agreed upon by stakeholders.

Metric: 23

Metric Description: Number of customers that have created and viewed an account on ComEd.com – by usage levels, customer class, and low income customers. An account on ComEd.com is necessary for viewing the web portal.

Number of Accounts by Delivery Class	
Delivery Class	Total Number of Accounts
Single Family W/O Elec. Space Heat	1,148,855
Multi Family W/O Elec. Space Heat	657,514
Single Family With Elec. Space Heat	16,941
Multi Family With Elec. Space Heat	86,948
Watt-Hour	21,396
Small Load	115,055
Medium Load	5,752
Large Load	1,341
Very Large Load	550
Extra Large Load	5
High Voltage	41
Dusk to Dawn Lighting	195
General Lighting	96

Number of Accounts by Usage Level for Residential, Watt-hour, and Small Load Delivery						
		Number of Accounts by Usage Level				
Delivery Class	Total	Quartile 1	Quartile 2	Quartile 3	Quartile 4	NA(1)
Single Family w/o Elec. Space Heat	1,148,855	211,447	251,617	278,637	292,982	114,172
Multi Family w/o Elec. Space Heat	657,514	106,093	116,657	127,991	136,203	170,570
Single Family With Elec. Space Heat	16,941	3,594	3,816	3,885	3,832	1,814
Multi Family With Elec. Space Heat	86,948	15,597	16,480	17,083	17,089	20,699
Watt-Hour	21,396	4,194	4,860	5,711	5,270	1,361
Small Load	115,055	26,008	25,901	26,322	26,483	10,341

Number of Low Income Accounts by Usage Level for Residential Delivery Classes(2)						
		Number of Accounts by Usage Level				
Delivery Class	Total	Quartile 1	Quartile 2	Quartile 3	Quartile 4	NA(1)
Single Family Without Space Heat	28,212	6,711	6,707	6,685	6,180	1,929
Multi Family Without Space Heat	18,624	2,968	3,599	4,390	5,675	1,992
Single Family With Space Heat	587	113	133	148	140	53
Multi Family With Space Heat	4,153	777	837	895	1,097	547

Accounts on Life Support and Medical Condition by Usage Level for Residential Delivery Classes(3)						
		Number of Accounts by Usage Level				
Delivery Class	Total	Quartile 1	Quartile 2	Quartile 3	Quartile 4	NA(1)
Single Family Without Space Heat	1,525	71	128	201	334	791
Multi Family Without Space Heat	595	3	15	39	104	434
Single Family With Space Heat	32	2	3	4	7	16
Multi Family With Space Heat	119	0	8	5	22	84

Notes for Metric 23:
(1) These accounts did not have bills for all 12 months of 2020 to determine their usage quartile.
(2) Low income accounts are those accounts that participated in the Low Income Home Energy Assistance Program (LIHEAP), and Percentage of Income Payment Program (PIPP).
(3) Customers on Medical Condition or Medical Certificate are based on data for 2020 and customers on Life Support are determined based on accounts on Life Support in January 2021. Some accounts in the Life Support and Medical Condition or Medical Certificate group may also be in the low-income group.

Metric: 24

Metric Description: Number of customers with ComEd.com accounts that have viewed the web portal - by usage levels, customer class, and low income customers.

Sort	Revised Category	Total Viewed Portal
1	RESIDENTIAL SINGLE	383,300
2	RESIDENTIAL MULTI	224,285
3	RESIDENTIAL SINGLE (SPACE HEAT)	6,433
4	RESIDENTIAL MULTI (SPACE HEAT)	34,041

Number of Accounts by Usage Level for Residential Delivery Classes						
	Number of Accounts by Usage Level					
Delivery Class	Total	Quartile 1	Quartile 2	Quartile 3	Quartile 4	NA(1)
SingleFamily W/O Elec. Space Heat	383,300	65,919	83,101	94,246	102,120	37,914
Multi Family W/O Elec. Space Heat	224,285	31,996	39,556	44,719	50,447	57,567
SingleFamily With Elec. Space Heat	6,433	1,242	1,521	1,511	1,566	593
Multi Family With Elec. Space Heat	34,041	5,768	6,649	7,037	7,132	7,455

Number of Low Income Accounts by Usage Level for Residential Delivery Classes(2)						
		Number of Accounts by Usage Level				
Delivery Class	Total	Quartile 1	Quartile 2	Quartile 3	Quartile 4	NA(1)
Single Family W/O Elec. Space Heat	12,194	2,712	2,904	2,979	2,934	665
Multi Family W/O Elec. Space Heat	7,206	942	1,301	1,834	2,562	567
Single Family With Elec. Space Heat	254	52	64	64	68	6
Multi Family With Elec. Space Heat	1,632	248	342	388	486	168

Accounts on Life Support and Medical Condition by Usage Level for Residential Delivery Classes(3)						
		Number of Accounts by Usage Level				
Delivery Class	Total	Quartile 1	Quartile 2	Quartile 3	Quartile 4	NA(1)
Single Family W/O Elec. Space Heat	254	25	39	64	122	4
Multi Family W/O Elec. Space Heat	54	1	4	13	36	-
Single Family With Elec. Space Heat	6	0	2	1	2	1
Multi Family With Elec. Space Heat	13	0	2	4	7	-

Notes for Metric 24:
(1) These accounts did not have bills for all 12 months of 2020 to determine their usage quartile.
(2) Low income accounts are those accounts that participated in the Low Income Home Energy Assistance Program (LIHEAP), and Percentage of Income Payment Program (PIPP).
(3) Customers on Medical Condition or Medical Certificate are based on data for 2020 and customers on Life Support are determined based on accounts on Life Support in January 2021. Some accounts in the Life Support and Medical Condition or Medical Certificate group may also be in the low-income group.

Metric: 25

Metric Description: ComEd has continued to work with its web presentment vendor to develop and vet a methodology for measuring energy savings by customers who have viewed the webs portal (ComEd.com/MyAccount). The 2020 methodology remains the same as the prior year. The methodology is explained below.

OBJECTIVE

The objective of this analysis is to estimate the effect of visiting ComEd's Opower website on customers' energy usage among those customers who had sufficient data to be included in the analysis. The analysis specifically focuses on customers who viewed iFramed Opower pages on comed.com for the first time between 2020-01-01 and 2020-12-22. The effect of visiting the web on energy usage will be estimated over this same period. The methodology used here is the same as in last year's report.

METHOD: PROPENSITY SCORE MATCHING

Logging in to the web is a self-selected, opt-in action and therefore not easily subject to random assignment as in an experimental evaluation approach (i.e., randomized controlled trial). Therefore, this analysis employs a quasi-experimental evaluation method which seeks to match customers who log in to the web ("treatment customers") to very similar customers who did not log in to the web ("matched control customers"). Matched controls are drawn from a larger set of candidate control customers. Because customers log in to the web on a rolling basis, the matching procedure repeats for each "cohort" of treatment customers defined by month of login.

The matching algorithm follows Imbens and Rubin (2015) and begins by selecting customer characteristics for estimation of a propensity score. The propensity score is the predicted probability of receiving the treatment - logging in to the web. Matching customers based on nearly identical propensity scores serves to balance the distribution of the included customer characteristics among the treatment and matched control populations. This approach effectively attempts to mimic the balancing that occurs via a randomized controlled trial.

An important limitation of this method is that treatment customers may still differ from matched control customers along unobserved dimensions (e.g., attitudes toward energy efficiency). Such unobserved differences can bias results if they remain imbalanced. Despite this limitation, propensity score matching is an accepted method in the DOE SEE Action guidelines and widely used in other disciplines.

The algorithm considered inclusion of each of the previous 12 months of energy usage data prior to the login month, customer tenure, and recipient status in each particular Home Energy Report (HER) wave. All first and second order terms are considered for inclusion by the algorithm.[21] Customers who were missing data for these characteristics were excluded from the analysis.

[1] Please see Imbens and Rubin (2015) for a detailed description of the algorithm.

Once the propensity score is estimated across customers, each treatment customer is matched to the control customer with the closest propensity score (their "nearest neighbor") on a 1:1 basis. Not all customers who log in are successfully matched largely due to not having 12 months of pre-login usage data. These customers are not matched due to the concern that they can not be matched well. As a result, the analysis measures the average treatment effect on the treated for those customers who visited the web and who could be matched well; it is not a measurement of the effect of web on all customers who visited the web.[22] The final result of this process is a treatment and a control group that are statistically equivalent across characteristics strongly related to both the outcome variable, energy usage, and the likelihood of web login.

ESTIMATION OF THE TREATMENT EFFECT

Following matching, savings estimation is conducted using the same model that Opower uses for the savings measurement of Home Energy Report (HER) programs. Robustness checks are conducted using a customer fixed effect model. These models incorporate pre-treatment energy usage data and serve as another opportunity to correct for differences between treatment and matched control customers. Please see Imbens and Rubin (2015) for the benefits of pairing matching with regression estimation to achieve "double robustness".

RESULTS

The tables below displays calendar year 2020 energy efficiency savings from web among ComEd customers who logged-in for the first time in calendar year 2020 and had sufficient data to be included in the analysis.

Table 1. Electric Savings Results

Percent savings (%)	Savings per customer per day (kWh)	Total customers	Total savings (MWh)
1.61% +/- 0.2%	0.404 +/- 0.104	40,853	2,719 +/- 701

Note: Savings estimates are statistically significant at the > 95% level. Margin of error represents 95% confidence interval.

REFERENCES

Crump, Richard, et al. "Moving the goalposts: Addressing limited overlap in the estimation of average treatment effects by changing the estimand." (2006).

Imbens, Guido W., and Donald B. Rubin. *Causal Inference in Statistics, Social, and Biomedical Sciences*. Cambridge University Press, 2015.

State and Local Energy Efficiency Action Network. 2012. *Evaluation, Measurement, and Verification (EM&V) of Residential Behavior-Based Energy Efficiency Programs: Issues and Recommendations*. Prepared by A. Todd, E. Stuart, S. Schiller, and C. Goldman, Lawrence Berkeley National Laboratory. http://behavioranalytics.lbl.gov.

[2] Crump et. al. (2006) argue that restricting the set of customers included in the analysis to those who can be can be matched well is an important step in reducing bias.

Metric: 26

Metric Description:
Number of customers enrolled in the Residential Real Time Pricing (RRTP) program (ComEd's hourly pricing program) as of 12/31/2020 by usage levels, customer class, and low income customers.

Number of Customers Enrolled in RRTP by Usage Level						
Delivery Class	Total	Quartile 1	Quartile 2	Quartile 3	Quartile 4	NA(1)
Single Family W/O Elec. Space Heat	28,917	5,787	6,287	7,119	9,067	657
Multi Family W/O Elec. Space Heat	6,914	1,266	1,522	1,667	2,037	422
Single Family With Elec. Space Heat	883	137	220	235	263	28
Multi Family With Elec. Space Heat	2,115	357	479	531	625	123

Number of Low Income Customers (2) Enrolled in RRTP						
Delivery Class	Total	Quartile 1	Quartile 2	Quartile 3	Quartile 4	NA(1)
Single Family W/O Elec. Space Heat	531	177	120	114	109	11
Multi Family W/O Elec. Space Heat	326	85	81	83	73	4
Single Family With Elec. Space Heat	17	4	1	4	8	-
Multi Family With Elec. Space Heat	101	26	25	22	27	1

Number of Customers on Life Support or Medical Condition (3) Enrolled in RRTP						
Delivery Class	Total	Quartile 1	Quartile 2	Quartile 3	Quartile 4	NA(2)
Single Family W/O Elec. Space Heat	128	16	31	28	53	-
Multi Family W/O Elec. Space Heat	19	1	1	5	12	-
Single Family With Elec. Space Heat	5	2	1	1	1	-
Multi Family With Elec. Space Heat	6	0	1	3	2	-

Notes for Metric 26:

(1) Usage quartile for these accounts could not be determined because they did not have bills for all 12 months of 2020.

(2) Low income customers are accounts that participated in the Low Income Home Energy Assistance Program (LIHEAP) and Percentage of Income Payment Program (PIPP).

(3) Customers on Life Support or Medical Condition/Certificate are identified based on data for 2019. Customer accounts can be in both low income programs and on Life Support or Medical Condition/Certificate.

Metric: 27

Metric Description:
Number of customers enrolled in the Residential Time of Day (RTOD) program (ComEd's time of use program) as of 12/31/2020 by usage levels, customer class, and low income customers.

Delivery Service Class	RTOD
RESIDENTIAL SINGLE	1,306
RESIDENTIAL MULTI	464
RESIDENTIAL SINGLE (SPACE HEAT)	27
RESIDENTIAL MULTI (SPACE HEAT)	81
Total	1,878

Number of Customers on RTOD by Usage Level for Residential Delivery Class						
Delivery Class	Total	Quartile 1	Quartile 2	Quartile 3	Quartile 4	NA (1)
Single Family W/O Elec. Space	1,306	244	275	262	286	239
Multi Family W/O Elec. Space	464	34	57	64	91	218
Single Family With Elec. Space	27	4	7	7	4	5
Multi Family With Elec. Space	81	13	15	12	9	32
Total	1,878	295	354	345	390	494

Number of Low Income Customers on RTOD by Usage Level for Residential Delivery Classes (2)						
Delivery Class	Total	Quartile 1	Quartile 2	Quartile 3	Quartile 4	NA
Single Family W/O Elec. Space Heat	22	5	5	5	5	2
Multi Family W/O Elec. Space Heat	11	1	0	3	4	3
Multi Family With Elec. Space Heat	5	1	0	2	1	1
Total	38	7	5	10	10	6

Number of Customers on RTOD and on Life Support or Medical Condition by Usage Level for Residential Delivery Classes (3)						
Delivery Class	Total	Quartile 1	Quartile 2	Quartile 3	Quartile 4	NA
Single Family W/O Elec. Space Heat	1	0	0	0	1	0

Notes for Metric 27:

(1) Usage quartile for these accounts could not be determined because they did not have bills for all 12 months of 2020.

(2) Low income customers are accounts that participated in the Low Income Home Energy Assistance Program (LIHEAP) and Percentage of Income Payment Program (PIPP).

(3) Customers on Life Support or Medical Condition/Certificate are identified based on data for 2020. Customer accounts can be in both low income programs and on Life Support or Medical Condition/Certificate.

Metric: 28

Metric Description:
Number of customers enrolled in ComEd's Peak Time Rebate (i.e. Peak Time Savings) program as of 12/31/2020 by usage levels, customer class, and low income customers.

Delivery Service Class	PTS
RESIDENTIAL SINGLE	215,091
RESIDENTIAL MULTI	63,233
RESIDENTIAL SINGLE (SPACE HEAT)	3,659
RESIDENTIAL MULTI (SPACE HEAT)	11,146

Number of Customers Enrolled in Peak Time Savings by Usage Level						
Delivery Class	Total	Quartile 1	Quartile 2	Quartile 3	Quartile 4	NA
Single Family W/O Elec. Space	215,091	51,067	52,833	53,555	52,857	4,779
Multi Family W/O Elec. Space	63,233	13,325	15,258	15,210	13,849	5,591
Single Family With Elec. Space	3,659	741	920	956	953	89
Multi Family With Elec. Space	11,146	2,557	2,513	2,504	2,801	771
Total	293,129	67,690	71,524	72,225	70,460	11,230

Number of Low Income Customers (2) Enrolled in Peak Time Savings by Usage Level						
Delivery Class	Total	Quartile 1	Quartile 2	Quartile 3	Quartile 4	NA
Single Family W/O Elec. Space Heat	4,471	1,683	1,118	876	752	42
Multi Family W/O Elec. Space Heat	2,960	845	794	694	592	35
Single Family With Elec. Space Heat	93	26	19	18	28	2
Multi Family With Elec. Space Heat	766	270	198	149	141	8
Total	8,290	2,824	2,129	1,737	1,513	87

Number of Customers on Life Support or Medical Condition (3) and Enrolled in Peak Time Savings by Usage Level						
Delivery Class	Total	Quartile 1	Quartile 2	Quartile 3	Quartile 4	NA
Single Family W/O Elec. Space Heat	271	37	59	73	102	-
Multi Family W/O Elec. Space Heat	51	3	9	17	22	-
Single Family With Elec. Space Heat	9	2	2	2	3	-
Multi Family With Elec. Space Heat	18	0	3	8	7	-
Total	349	42	73	100	134	-

Notes for Metric 28:

(1) Usage quartile for these accounts could not be determined because they did not have bills for all 12 months of 2020.
(2) Low income customers are accounts that participated in the Low Income Home Energy Assistance Program (LIHEAP) and Percentage of Income Payment Program (PIPP).
(3) Customers on Life Support or Medical Condition/Certificate are identified based on data for 2019. Customer accounts can be in both low income programs and on Life Support or Medical Condition/Certificate.

Metric: 29

Metric Description: Number of deposits required, disconnection notices, and disconnections for nonpayment for all customers and, if applicable, by low income customers. Other "key indicia associated with credit and collection activities targeted to low income customers" may be incorporated in the project plan's business process redesigns for future implementation.

Part 1: Number of Deposits Required in 2020 - by usage levels, customer class, and low income customers.	
Number of Accounts by Delivery Class	
Delivery Class	Total Number of Accounts
Single Family W/O Elec. Space Heat	9,742
Multi Family W/O Elec. Space Heat	17,234
Single Family With Elec. Space Heat	230
Multi Family With Elec. Space Heat	2,739
Watt-Hour	1,148
Small Load	7,191
Medium Load	169
Large Load	27
Very Large Load	13
High Voltage	1
Dusk to Dawn Lighting	1

Other Lights	1

Notes for Deposits: Total accounts and low income accounts presented were active as of December 31, 2020. Inactive accounts are not presented. In total, including inactive, there were 47,891 new distinct accounts with deposits quoted in 2020.

Number of Accounts by Usage Level for Residential, Watt-hour, and Small Load Delivery Classes						
		Number of Accounts by Usage Level				
Delivery Class	Total	Quartile 1	Quartile 2	Quartile 3	Quartile 4	NA(1)
Single Family W/O Elec. Space Heat	9,742	142	87	58	36	9,419
Multi Family W/O Elec. Space Heat	17,234	173	143	109	74	16,735
Single Family With Elec. Space Heat	230	2	5	0	0	223
Multi Family With Elec. Space Heat	2,739	28	18	15	16	2,662
Watt-Hour	1,148	11	11	12	6	1,108
Small Load	7,191	102	72	64	50	6,903

Number of Low Income Accounts by Usage Level for Residential Delivery Classes (2)						
		Number of Accounts by Usage Level				
Delivery Class	Total	Quartile 1	Quartile 2	Quartile 3	Quartile 4	NA(1)
Single Family W/O Elec. Space Heat	172	3	0	2	3	164
Multi Family W/O Elec. Space Heat	210	6	1	3	5	195
Single Family With Elec. Space Heat	7	1	0	0	0	6
Multi Family With Elec. Space Heat	57	2	2	0	0	53

Accounts on Life Support and Medical Condition by Usage Level for Residential Delivery Classes (3)						
		Number of Accounts by Usage Level				
Delivery Class	Total	Quartile 1	Quartile 2	Quartile 3	Quartile 4	NA(1)
Single Family W/O Elec. Space Heat	5	0	0	0	0	5
Multi Family W/O Elec. Space Heat	9	0	0	0	0	9
SingleFamilyWith Elec. Space Heat	1	0	0	0	0	1
MultiFamilyWith Elec. Space Heat	1	0	0	0	0	1

Part 2: Number of Disconnection Notices in 2020 - by usage levels, customer class, and low income customers.	
Number of Accounts by Delivery Class	
Delivery Class	Total Number of Accounts
Single Family W/O Elec. Space Heat	210,107
Multi Family W/O Elec. Space Heat	110,600
Single Family With Elec. Space Heat	3,069
Multi Family With Elec. Space Heat	14,016
Watt-Hour	1,694
Small Load	22,068
Medium Load	1,309
Large Load	277
Very Large Load	150
Extra Large Load	5
High Voltage	20
Dusk to Dawn Lighting	38
Other Lights	23

Notes for Disconnection Notices: Total accounts and low income accounts presented were active as of December 31, 2020. Inactive accounts are not presented. In total, including inactive, there were 418,862 distinct accounts receiving disconnect notices in 2020.

Number of Accounts by Usage Level for Residential, Watt-hour, and Small Load Delivery Classes						
		Number of Accounts by Usage Level				
Delivery Class	Total	Quartile 1	Quartile 2	Quartile 3	Quartile 4	NA(1)
Single Family W/O Elec. Space Heat	210,107	32,405	40,567	52,495	65,742	18,898
Multi Family W/O Elec. Space Heat	110,600	11,665	17,912	25,449	37,100	18,474
Single Family With Elec. Space Heat	3,069	525	642	742	818	342
Multi Family With Elec. Space Heat	14,016	1,245	2,272	3,567	4,429	2,503
Watt-Hour	1,694	174	313	372	584	251
Small Load	22,068	2,682	4,216	5,869	6,322	2,979

Number of Low Income Accounts by Usage Level for Residential Delivery Classes(2)						
		Number of Accounts by Usage Level				
Delivery Class	Total	Quartile 1	Quartile 2	Quartile 3	Quartile 4	NA(1)
Single Family W/O Elec. Space Heat	11,618	1,873	2,507	2,849	2,966	1,423
Multi Family W/O Elec. Space Heat	7,208	454	1,128	1,648	2,822	1,156
Single Family With Elec. Space Heat	233	30	52	62	66	23
Multi Family With Elec. Space Heat	1,393	107	243	344	448	251

Accounts on Life Support and Medical Condition by Usage Level for Residential Delivery Classes(3)						
		Number of Accounts by Usage Level				
Delivery Class	Total	Quartile 1	Quartile 2	Quartile 3	Quartile 4	NA(1)
Single Family W/O Elec. Space Heat	782	84	143	181	288	86
Multi Family W/O Elec. Space Heat	387	20	49	83	185	50
Single Family With Elec. Space Heat	11	3	3	0	4	1
Multi Family With Elec. Space Heat	67	3	11	26	20	7

Part 3: Number of Disconnections in 2020 - by usage levels, customer class, and low income customers.	
Number of Accounts by Delivery Class	
Delivery Class	Total Number of Accounts
RESIDENTIAL SINGLE	23,731
RESIDENTIAL MULTI	13,341
RESIDENTIAL SINGLE (SPACE HEAT)	434
RESIDENTIAL MULTI (SPACE HEAT)	2,072
COM KWH ONLY	834
SMALL (0 - 100)	4,290
MED (100 - 400)	5
Dusk to Dawn Lighting	1
Other Lights	1

Notes for Disconnection: Total accounts and low income accounts presented were active as of December 31, 2020. Inactive accounts are not presented. In total, including inactive, there were 56,660 distinct accounts suspended in 2020.

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Part 3: Number of Disconnections in 2020 - by usage levels, customer class, and low income customers.						
Number of Accounts by Usage Level for Residential, Watt-hour, and Small Load Delivery Classes						
		Number of Accounts by Usage Level				
Delivery Class	Total	Quartile 1	Quartile 2	Quartile 3	Quartile 4	NA(1)
Single Family W/O Elec. Space Heat	23,731	3,847	4,555	5,908	7,385	2,036
Multi Family W/O Elec. Space Heat	13,341	845	1,854	3,349	5,585	1,708
Single Family With Elec. Space Heat	434	73	90	115	95	61
Multi Family With Elec. Space Heat	2,072	176	336	572	723	265
Watt-Hour	834	72	136	185	270	171
Small Load	4,290	892	1,175	1,004	389	830

Number of Low Income Accounts by Usage Level for Residential Delivery Classes (2)						
		Number of Accounts by Usage Level				
Delivery Class	Total	Quartile 1	Quartile 2	Quartile 3	Quartile 4	NA(1)
Single Family W/O Elec. Space Heat	1,486	274	313	354	343	202
Multi Family W/O Elec. Space Heat	1,127	53	181	260	439	194
Single Family With Elec. Space Heat	48	7	13	11	10	7
Multi Family With Elec. Space Heat	259	16	40	73	89	41

Accounts on Life Support and Medical Condition by Usage Level for Residential Delivery Classes(3)						
		Number of Accounts by Usage Level				
Delivery Class	Total	Quartile 1	Quartile 2	Quartile 3	Quartile 4	NA(1)
Single Family W/O Elec. Space Heat	782	84	143	181	288	86
Multi Family W/O Elec. Space Heat	387	20	49	83	185	50
Single Family With Elec. Space Heat	11	3	3	0	4	1
Multi Family With Elec. Space Heat	67	3	11	26	20	7

ComEd
An Exelon Company

Smart Grid Advanced Metering Annual Implementation Progress Report

ATTACHMENT 2

Metric: 16 A Continued

Metric Description: ComEd's response time to a distributed resource project application, and time from receipt of application until energy flows from project to grid (distribution.)

Issue ID	Date Application Received	Certificate of Completion	Year Completed	Duration	Fuel Type	Final Level Assigned
17-00256	10/13/2017	12/22/2020	2020	1166	Solar	Level 2
17-00346	03/19/2018	12/10/2020	2020	997	Solar	Level 4
17-00350	11/02/2017	11/03/2020	2020	1097	Solar	Level 4
17-00455	05/01/2018	12/23/2020	2020	967	Solar	Level 4
17-00516	12/07/2017	10/15/2020	2020	1043	Solar	Level 4
17-00610	04/03/2018	12/29/2020	2020	1001	Solar	Level 4
17-00617	04/14/2018	12/31/2020	2020	992	Solar	Level 4
18-00015	01/09/2018	03/19/2020	2020	800	Solar	Level 1
18-00089	01/23/2018	12/14/2020	2020	1056	Solar	Level 4
18-00106	01/29/2018	12/29/2020	2020	1065	Solar	Level 4
18-00220	10/15/2018	10/02/2020	2020	718	Solar	Level 4
18-00329	03/08/2018	12/23/2020	2020	1021	Solar	Level 4
18-00349	03/16/2018	12/23/2020	2020	1013	Solar	Level 4
18-00397	04/10/2018	08/31/2020	2020	874	Solar	Level 4
18-00411	03/27/2018	10/28/2020	2020	946	Solar	Level 4
18-00432	04/02/2018	12/30/2020	2020	1003	Solar	Level 4
18-00460	04/09/2018	12/08/2020	2020	974	Solar	Level 4
18-00475	04/11/2018	12/10/2020	2020	974	Solar	Level 4
18-00521	04/13/2018	02/07/2020	2020	665	Methane from Anaerobic Digestion of Food Processing Waste	Level 2
18-00531	04/17/2018	12/09/2020	2020	967	Solar	Level 2
18-00532	04/17/2018	12/09/2020	2020	967	Solar	Level 2
18-00533	08/28/2018	12/03/2020	2020	828	Solar	Level 4
18-00748	05/07/2018	12/28/2020	2020	966	Solar	Level 4
18-00816	05/15/2018	06/29/2020	2020	776	Solar	Level 2
18-00817	05/15/2018	02/25/2020	2020	651	Solar	Level 2
18-00954	05/31/2018	04/20/2020	2020	690	Solar	Level 4
18-00984	06/05/2018	07/28/2020	2020	784	Solar	Level 2
18-00985	06/05/2018	09/18/2020	2020	836	Solar	Level 2
18-00986	06/05/2018	09/18/2020	2020	836	Solar	Level 2
18-00987	06/05/2018	07/28/2020	2020	784	Solar	Level 2
18-00988	06/05/2018	07/28/2020	2020	784	Solar	Level 2
18-00989	06/05/2018	07/28/2020	2020	784	Solar	Level 2
18-00990	06/05/2018	08/10/2020	2020	797	Solar	Level 4
18-00991	06/05/2018	07/28/2020	2020	784	Solar	Level 4

Issue ID	Date Application Received	Certificate of Completion	Year Completed	Duration	Fuel Type	Final Level Assigned
18-00992	06/05/2018	07/28/2020	2020	784	Solar	Level 4
18-00997	06/05/2018	09/17/2020	2020	835	Solar	Level 4
18-01033	06/09/2018	01/30/2020	2020	600	Solar	Level 1
18-01043	06/11/2018	11/05/2020	2020	878	Solar	Level 4
18-01044	06/11/2018	08/10/2020	2020	791	Solar	Level 4
18-01187	06/21/2018	12/17/2020	2020	910	Solar	Level 2
18-01192	06/20/2018	08/21/2020	2020	793	Solar	Level 4
18-01338	07/06/2018	06/11/2020	2020	706	Solar	Level 2
18-01372	07/10/2018	01/13/2020	2020	552	Solar	Level 2
18-01408	07/12/2018	12/23/2020	2020	895	Solar	Level 4
18-01525	07/20/2018	07/23/2020	2020	734	Solar	Level 4
18-01527	07/20/2018	03/02/2020	2020	591	Solar	Level 4
18-01560	07/25/2018	01/16/2020	2020	540	Solar	Level 1
18-01660	07/31/2018	12/30/2020	2020	883	Solar	Level 2
18-01668	08/01/2018	12/23/2020	2020	875	Solar	Level 2
18-01763	08/06/2018	09/01/2020	2020	757	Solar	Level 2
18-01768	08/06/2018	06/02/2020	2020	666	Solar	Level 2
18-01771	08/06/2018	01/02/2020	2020	514	Solar	Level 2
18-01831	08/09/2018	10/23/2020	2020	806	Solar	Level 1
18-01880	08/13/2018	10/21/2020	2020	800	Solar	Level 2
18-01915	08/14/2018	03/09/2020	2020	573	Solar	Level 1
18-02032	08/16/2018	02/13/2020	2020	546	Solar	Level 1
18-02061	11/14/2018	03/25/2020	2020	497	Solar	Level 2
18-02094	08/21/2018	10/28/2020	2020	799	Solar	Level 1
18-02098	08/21/2018	03/16/2020	2020	573	Solar	Level 1
18-02219	08/27/2018	12/01/2020	2020	827	Solar	Level 2
18-02269	08/29/2018	02/10/2020	2020	530	Solar	Level 1
18-02480	09/10/2018	04/27/2020	2020	595	Solar	Level 1
18-02499	09/11/2018	04/29/2020	2020	596	Solar	Level 2
18-02510	09/11/2018	04/29/2020	2020	596	Solar	Level 2
18-02546	09/13/2018	06/24/2020	2020	650	Solar	Level 4
18-02570	09/13/2018	12/30/2020	2020	839	Solar	Level 2
18-02571	09/13/2018	12/10/2020	2020	819	Solar	Level 2
18-02625	09/17/2018	02/10/2020	2020	511	Solar	Level 2
18-02663	09/20/2018	01/31/2020	2020	498	Solar	Level 1
18-02667	09/20/2018	12/03/2020	2020	805	Solar	Level 2
18-02712	09/21/2018	11/20/2020	2020	791	Solar	Level 2
18-02765	09/25/2018	03/31/2020	2020	553	Solar	Level 1
18-02818	09/27/2018	10/07/2020	2020	741	Solar	Level 4

18-02858	09/28/2018	04/21/2020	2020	571	Solar	Level 2
18-02860	09/28/2018	04/21/2020	2020	571	Solar	Level 1
18-02902	10/02/2018	01/06/2020	2020	461	Solar	Level 1
18-02955	10/04/2018	04/23/2020	2020	567	Solar	Level 2
18-02958	10/04/2018	12/01/2020	2020	789	Solar	Level 2
18-02986	10/05/2018	04/27/2020	2020	570	Solar	Level 2
18-02993	10/05/2018	07/23/2020	2020	657	Solar	Level 2
18-03000	10/05/2018	02/26/2020	2020	509	Solar	Level 1
18-03014	10/08/2018	06/03/2020	2020	604	Solar	Level 1
18-03028	10/08/2018	04/30/2020	2020	570	Solar	Level 2
18-03033	10/08/2018	04/27/2020	2020	567	Solar	Level 2
18-03036	10/08/2018	12/09/2020	2020	793	Solar	Level 4
18-03040	10/08/2018	05/26/2020	2020	596	Solar	Level 2
18-03041	10/08/2018	04/30/2020	2020	570	Solar	Level 2
18-03103	10/11/2018	06/30/2020	2020	628	Solar	Level 1
18-03350	10/23/2018	09/11/2020	2020	689	Solar	Level 1
18-03363	10/24/2018	09/15/2020	2020	692	Solar	Level 1
18-03425	10/25/2018	06/29/2020	2020	613	Solar	Level 1
18-03459	10/29/2018	12/01/2020	2020	764	Solar	Level 2
18-03533	11/01/2018	06/05/2020	2020	582	Solar	Level 2
18-03652	11/07/2018	10/06/2020	2020	699	Solar	Level 2
18-03656	11/07/2018	09/23/2020	2020	686	Solar	Level 2
18-03657	11/07/2018	12/23/2020	2020	777	Solar	Level 2
18-03659	11/07/2018	12/23/2020	2020	777	Solar	Level 2
18-03660	11/07/2018	10/06/2020	2020	699	Solar	Level 2
18-03661	11/07/2018	10/21/2020	2020	714	Solar	Level 2
18-03668	11/08/2018	12/08/2020	2020	761	Solar	Level 2
18-03694	11/08/2018	10/14/2020	2020	706	Solar	Level 1
18-03706	11/08/2018	03/02/2020	2020	480	Solar	Level 1
18-03716	11/09/2018	11/04/2020	2020	726	Solar	Level 2
18-03717	11/09/2018	10/15/2020	2020	706	Solar	Level 4
18-03724	11/09/2018	09/29/2020	2020	690	Solar	Level 2
18-03728	11/09/2018	09/29/2020	2020	690	Solar	Level 2
18-03785	11/13/2018	04/07/2020	2020	511	Solar	Level 1
18-03821	11/15/2018	03/19/2020	2020	490	Solar	Level 1
18-03822	11/15/2018	03/17/2020	2020	488	Solar	Level 1
18-03824	11/15/2018	04/15/2020	2020	517	Solar	Level 1
18-03841	11/15/2018	02/07/2020	2020	449	Solar	Level 1
18-03892	11/16/2018	01/06/2020	2020	416	Solar	Level 1
18-03934	11/19/2018	03/31/2020	2020	498	Solar	Level 1
18-03940	11/19/2018	08/31/2020	2020	651	Solar	Level 1

18-04021	11/26/2018	03/03/2020	2020	463	Solar	Level 2
18-04092	11/28/2018	07/24/2020	2020	604	Natural Gas	Level 4
18-04131	11/29/2018	03/23/2020	2020	480	Solar	Level 2
18-04157	11/29/2018	05/03/2020	2020	521	Solar	Level 1
18-04159	11/30/2018	11/04/2020	2020	705	Solar	Level 2
18-04207	12/01/2018	01/14/2020	2020	409	Solar	Level 1
18-04213	12/01/2018	06/22/2020	2020	569	Solar	Level 1
18-04247	12/03/2018	02/17/2020	2020	441	Solar	Level 2
18-04301	12/05/2018	10/23/2020	2020	688	Solar	Level 2
18-04307	12/05/2018	10/21/2020	2020	686	Solar	Level 2
18-04315	12/05/2018	05/07/2020	2020	519	Solar	Level 2
18-04323	12/05/2018	02/20/2020	2020	442	Solar	Level 2
18-04417	12/11/2018	05/15/2020	2020	521	Solar	Level 1
18-04430	12/11/2018	06/01/2020	2020	538	Solar	Level 1
18-04486	12/13/2018	02/07/2020	2020	421	Solar	Level 1
18-04514	12/14/2018	10/01/2020	2020	657	Solar	Level 4
18-04525	12/14/2018	02/27/2020	2020	440	Solar	Level 1
18-04536	12/14/2018	06/25/2020	2020	559	Solar	Level 2
18-04537	12/14/2018	06/25/2020	2020	559	Solar	Level 2
18-04572	12/17/2018	08/12/2020	2020	604	Solar	Level 2
18-04573	12/17/2018	08/21/2020	2020	613	Solar	Level 2
18-04594	12/17/2018	02/28/2020	2020	438	Solar	Level 1
18-04606	12/18/2018	01/17/2020	2020	395	Solar	Level 1
18-04613	12/18/2018	05/26/2020	2020	525	Solar	Level 1
18-04636	12/19/2018	05/26/2020	2020	524	Solar	Level 1
19-00023	01/02/2019	06/12/2020	2020	527	Solar	Level 1
19-00029	01/02/2019	08/21/2020	2020	597	Solar	Level 2
19-00034	01/03/2019	02/13/2020	2020	406	Solar	Level 1
19-00121	01/07/2019	01/24/2020	2020	382	Solar	Level 1
19-00147	01/07/2019	02/25/2020	2020	414	Solar	Level 1
19-00148	01/08/2019	01/21/2020	2020	378	Solar	Level 1
19-00157	01/08/2019	01/24/2020	2020	381	Solar	Level 2
19-00229	01/11/2019	06/30/2020	2020	536	Solar	Level 1
19-00240	01/11/2019	06/29/2020	2020	535	Solar	Level 1
19-00351	01/17/2019	09/15/2020	2020	607	Solar	Level 1
19-00359	01/18/2019	09/25/2020	2020	616	Solar	Level 2
19-00362	01/18/2019	03/19/2020	2020	426	Solar	Level 1
19-00369	01/18/2019	05/12/2020	2020	480	Solar	Level 1
19-00469	01/24/2019	01/08/2020	2020	349	Solar	Level 1
19-00525	01/28/2019	03/03/2020	2020	400	Solar	Level 1
19-00534	01/28/2019	01/03/2020	2020	340	Solar	Level 1

19-00585	01/30/2019	03/19/2020	2020	414	Solar	Level 1
19-00588	01/30/2019	04/24/2020	2020	450	Solar	Level 1
19-00598	01/31/2019	03/11/2020	2020	405	Solar	Level 1
19-00693	02/05/2019	01/24/2020	2020	353	Solar	Level 2
19-00731	02/07/2019	02/17/2020	2020	375	Solar	Level 1
19-00780	02/12/2019	02/10/2020	2020	363	Solar	Level 1
19-00801	02/12/2019	02/03/2020	2020	356	Solar	Level 1
19-00815	02/13/2019	01/31/2020	2020	352	Solar	Level 1
19-00824	02/13/2019	03/12/2020	2020	393	Solar	Level 1
19-00846	02/14/2019	02/13/2020	2020	364	Solar	Level 1
19-00922	02/19/2019	11/04/2020	2020	624	Solar	Level 1
19-00945	02/20/2019	04/21/2020	2020	426	Solar	Level 1
19-00974	02/21/2019	07/24/2020	2020	519	Solar	Level 1
19-00993	02/21/2019	03/18/2020	2020	391	Solar	Level 1
19-01016	02/22/2019	01/24/2020	2020	336	Solar	Level 1
19-01036	02/25/2019	05/12/2020	2020	442	Solar	Level 1
19-01048	02/25/2019	07/09/2020	2020	500	Solar	Level 1
19-01110	02/27/2019	02/28/2020	2020	366	Solar	Level 1
19-01114	02/27/2019	03/02/2020	2020	369	Solar	Level 1
19-01158	02/28/2019	01/30/2020	2020	336	Solar	Level 1
19-01171	02/28/2019	03/16/2020	2020	382	Solar	Level 1
19-01177	02/28/2019	03/12/2020	2020	378	Solar	Level 1
19-01193	03/01/2019	04/27/2020	2020	423	Solar	Level 1
19-01194	03/01/2019	09/22/2020	2020	571	Solar	Level 1
19-01214	03/04/2019	03/09/2020	2020	371	Solar	Level 1
19-01228	03/04/2019	12/14/2020	2020	651	Solar	Level 1
19-01253	03/05/2019	08/14/2020	2020	528	Solar	Level 1
19-01298	03/06/2019	08/18/2020	2020	531	Solar	Level 1
19-01308	03/07/2019	01/30/2020	2020	329	Solar	Level 1
19-01334	03/08/2019	02/10/2020	2020	339	Solar	Level 2
19-01352	03/11/2019	03/03/2020	2020	358	Solar	Level 1
19-01357	03/11/2019	07/09/2020	2020	486	Solar	Level 1
19-01365	03/11/2019	03/05/2020	2020	360	Solar	Level 1
19-01386	03/12/2019	01/16/2020	2020	310	Solar	Level 1
19-01406	03/13/2019	09/10/2020	2020	547	Solar	Level 2
19-01422	03/13/2019	04/07/2020	2020	391	Solar	Level 1
19-01436	03/14/2019	05/27/2020	2020	440	Solar	Level 2
19-01446	03/14/2019	05/04/2020	2020	417	Solar	Level 1
19-01484	03/15/2019	06/12/2020	2020	455	Solar	Level 1
19-01513	03/18/2019	01/10/2020	2020	298	Solar	Level 1
19-01559	03/19/2019	08/14/2020	2020	514	Solar	Level 1

19-01604	03/20/2019	02/13/2020	2020	330	Solar	Level 1
19-01612	03/21/2019	02/26/2020	2020	342	Solar	Level 1
19-01625	03/21/2019	01/16/2020	2020	301	Solar	Level 1
19-01632	03/21/2019	01/31/2020	2020	316	Solar	Level 1
19-01638	03/21/2019	05/26/2020	2020	432	Solar	Level 1
19-01701	03/22/2019	01/16/2020	2020	300	Solar	Level 1
19-01704	03/22/2019	01/03/2020	2020	287	Solar	Level 1
19-01706	03/22/2019	01/16/2020	2020	300	Solar	Level 1
19-01774	03/27/2019	08/18/2020	2020	510	Solar	Level 1
19-01775	03/27/2019	02/13/2020	2020	323	Solar	Level 1
19-01806	03/28/2019	04/30/2020	2020	399	Solar	Level 1
19-01891	04/01/2019	04/13/2020	2020	378	Solar	Level 1
19-01909	04/01/2019	01/24/2020	2020	298	Solar	Level 1
19-01915	04/02/2019	01/16/2020	2020	289	Solar	Level 1
19-01963	04/03/2019	08/07/2020	2020	492	Solar	Level 1
19-01972	04/03/2019	04/02/2020	2020	365	Solar	Level 1
19-02000	04/04/2019	04/30/2020	2020	392	Solar	Level 1
19-02001	04/04/2019	12/09/2020	2020	615	Solar	Level 1
19-02002	04/04/2019	02/21/2020	2020	323	Solar	Level 1
19-02045	04/05/2019	01/17/2020	2020	287	Solar	Level 1
19-02340	04/10/2019	01/06/2020	2020	271	Solar	Level 1
19-02421	04/11/2019	02/06/2020	2020	301	Solar	Level 1
19-02453	04/17/2019	06/22/2020	2020	432	Solar	Level 1
19-02489	04/17/2019	02/27/2020	2020	316	Solar	Level 1
19-02508	04/18/2019	03/25/2020	2020	342	Solar	Level 1
19-02515	04/18/2019	02/12/2020	2020	300	Solar	Level 1
19-02541	04/18/2019	07/21/2020	2020	460	Solar	Level 1
19-02558	04/18/2019	01/29/2020	2020	286	Solar	Level 1
19-02571	04/19/2019	02/25/2020	2020	312	Solar	Level 1
19-02599	04/19/2019	03/19/2020	2020	335	Solar	Level 1
19-02671	04/23/2019	02/07/2020	2020	290	Solar	Level 1
19-02709	04/24/2019	02/27/2020	2020	309	Solar	Level 1
19-02738	04/25/2019	03/17/2020	2020	327	Solar	Level 1
19-02794	04/26/2019	10/06/2020	2020	529	Solar	Level 1
19-02811	04/28/2019	05/07/2020	2020	375	Solar	Level 1
19-02824	04/29/2019	07/22/2020	2020	450	Solar	Level 1
19-02837	04/29/2019	02/13/2020	2020	290	Solar	Level 1
19-02896	04/30/2019	03/17/2020	2020	322	Solar	Level 1
19-02909	04/30/2019	02/19/2020	2020	295	Solar	Level 1
19-02932	05/01/2019	05/18/2020	2020	383	Solar	Level 1
19-02941	05/01/2019	07/17/2020	2020	443	Solar	Level 1

19-02972	05/02/2019	06/12/2020	2020	407	Solar	Level 1
19-02982	05/02/2019	04/24/2020	2020	358	Solar	Level 1
19-02985	05/02/2019	06/03/2020	2020	398	Solar	Level 2
19-02995	05/02/2019	05/18/2020	2020	382	Solar	Level 1
19-02997	05/02/2019	04/30/2020	2020	364	Solar	Level 1
19-03001	05/02/2019	04/20/2020	2020	354	Solar	Level 1
19-03020	05/03/2019	03/09/2020	2020	311	Solar	Level 1
19-03023	05/03/2019	03/18/2020	2020	320	Solar	Level 1
19-03031	05/03/2019	06/14/2020	2020	408	Solar	Level 1
19-03045	05/03/2019	01/10/2020	2020	252	Solar	Level 1
19-03066	05/06/2019	11/05/2020	2020	549	Solar	Level 2
19-03070	05/06/2019	01/24/2020	2020	263	Solar	Level 1
19-03074	05/06/2019	09/28/2020	2020	511	Solar	Level 2
19-03088	05/06/2019	12/29/2020	2020	603	Solar	Level 2
19-03091	05/06/2019	04/29/2020	2020	359	Solar	Level 1
19-03117	05/07/2019	10/14/2020	2020	526	Solar	Level 1
19-03135	05/07/2019	11/04/2020	2020	547	Solar	Level 2
19-03137	05/07/2019	08/21/2020	2020	472	Solar	Level 2
19-03147	05/07/2019	06/12/2020	2020	402	Solar	Level 1
19-03151	05/07/2019	02/12/2020	2020	281	Solar	Level 1
19-03189	05/08/2019	03/31/2020	2020	328	Solar	Level 1
19-03199	05/08/2019	02/24/2020	2020	292	Solar	Level 1
19-03209	05/08/2019	03/16/2020	2020	313	Solar	Level 1
19-03215	05/08/2019	02/28/2020	2020	296	Solar	Level 1
19-03221	05/08/2019	03/17/2020	2020	314	Solar	Level 1
19-03228	05/09/2019	05/27/2020	2020	384	Solar	Level 2
19-03256	05/09/2019	05/11/2020	2020	368	Solar	Level 1
19-03260	05/09/2019	01/24/2020	2020	260	Solar	Level 1
19-03317	05/10/2019	02/13/2020	2020	279	Solar	Level 1
19-03326	05/10/2019	02/13/2020	2020	279	Solar	Level 1
19-03329	05/10/2019	02/09/2020	2020	275	Solar	Level 1
19-03332	05/10/2019	01/10/2020	2020	245	Solar	Level 1
19-03930	05/13/2019	02/10/2020	2020	273	Solar	Level 1
19-03931	05/13/2019	08/14/2020	2020	459	Solar	Level 1
19-03933	05/13/2019	03/17/2020	2020	309	Solar	Level 1
19-03956	05/14/2019	01/17/2020	2020	248	Solar	Level 1
19-03973	05/14/2019	03/31/2020	2020	322	Solar	Level 1
19-04045	05/15/2019	02/24/2020	2020	285	Solar	Level 1
19-04053	05/15/2019	03/20/2020	2020	310	Solar	Level 1
19-04065	05/16/2019	06/08/2020	2020	389	Solar	Level 1
19-04073	05/16/2019	04/27/2020	2020	347	Solar	Level 1

19-04096	05/17/2019	01/27/2020	2020	255	Solar	Level 4
19-04124	05/17/2019	01/17/2020	2020	245	Solar	Level 1
19-04125	05/17/2019	08/19/2020	2020	460	Solar	Level 1
19-04136	05/17/2019	04/07/2020	2020	326	Solar	Level 1
19-04144	05/17/2019	02/25/2020	2020	284	Solar	Level 2
19-04194	05/20/2019	01/14/2020	2020	239	Solar	Level 1
19-04201	05/20/2019	11/06/2020	2020	536	Solar	Level 1
19-04222	05/20/2019	05/27/2020	2020	373	Solar	Level 1
19-04225	05/20/2019	02/19/2020	2020	275	Solar	Level 1
19-04229	05/20/2019	03/26/2020	2020	311	Solar	Level 1
19-04236	05/20/2019	02/07/2020	2020	263	Solar	Level 1
19-04265	05/21/2019	01/09/2020	2020	233	Solar	Level 1
19-04275	05/22/2019	02/25/2020	2020	279	Solar	Level 1
19-04277	05/22/2019	07/13/2020	2020	418	Solar	Level 1
19-04296	05/22/2019	03/05/2020	2020	288	Solar	Level 2
19-04308	05/22/2019	01/08/2020	2020	231	Solar	Level 1
19-04319	05/22/2019	01/09/2020	2020	232	Solar	Level 1
19-04330	05/22/2019	02/11/2020	2020	265	Solar	Level 1
19-04331	05/23/2019	03/18/2020	2020	300	Solar	Level 1
19-04351	05/23/2019	01/09/2020	2020	231	Solar	Level 1
19-04353	05/23/2019	02/13/2020	2020	266	Solar	Level 1
19-04379	05/24/2019	07/29/2020	2020	432	Solar	Level 4
19-04380	05/24/2019	06/12/2020	2020	385	Solar	Level 1
19-04382	05/24/2019	08/30/2020	2020	464	Solar	Level 1
19-04390	05/24/2019	01/24/2020	2020	245	Solar	Level 1
19-04392	05/24/2019	10/09/2020	2020	504	Solar	Level 1
19-04403	05/24/2019	03/02/2020	2020	283	Solar	Level 1
19-04418	05/24/2019	01/28/2020	2020	249	Solar	Level 1
19-04427	05/28/2019	03/10/2020	2020	287	Solar	Level 1
19-04429	05/28/2019	04/01/2020	2020	309	Solar	Level 1
19-04443	05/28/2019	07/31/2020	2020	430	Solar	Level 1
19-04447	05/28/2019	03/02/2020	2020	279	Solar	Level 1
19-04451	05/28/2019	02/06/2020	2020	254	Solar	Level 1
19-04471	05/28/2019	03/30/2020	2020	307	Solar	Level 1
19-04492	05/28/2019	06/12/2020	2020	381	Solar	Level 1
19-04493	05/28/2019	09/19/2020	2020	480	Solar	Level 1
19-04506	05/29/2019	03/16/2020	2020	292	Solar	Level 1
19-04523	05/29/2019	08/13/2020	2020	442	Solar	Level 1
19-04530	05/29/2019	05/20/2020	2020	357	Solar	Level 1
19-04546	05/30/2019	03/13/2020	2020	288	Solar	Level 2
19-04547	05/30/2019	02/04/2020	2020	250	Solar	Level 1

19-04584	05/30/2019	01/30/2020	2020	245	Solar	Level 1
19-04588	05/30/2019	01/28/2020	2020	243	Solar	Level 1
19-04598	05/31/2019	08/10/2020	2020	437	Solar	Level 1
19-04611	05/31/2019	03/19/2020	2020	293	Solar	Level 1
19-04625	05/31/2019	03/23/2020	2020	297	Solar	Level 1
19-04634	05/31/2019	08/20/2020	2020	447	Solar	Level 1
19-04639	05/31/2019	02/05/2020	2020	250	Solar	Level 1
19-04670	06/03/2019	07/31/2020	2020	424	Solar	Level 1
19-04676	06/03/2019	06/24/2020	2020	387	Solar	Level 1
19-04677	06/03/2019	02/07/2020	2020	249	Solar	Level 1
19-04687	06/03/2019	07/14/2020	2020	407	Solar	Level 1
19-04689	06/03/2019	02/19/2020	2020	261	Solar	Level 1
19-04692	06/03/2019	03/13/2020	2020	284	Solar	Level 1
19-04707	06/04/2019	03/18/2020	2020	288	Solar	Level 1
19-04726	06/04/2019	02/28/2020	2020	269	Solar	Level 1
19-04734	06/04/2019	01/30/2020	2020	240	Solar	Level 1
19-04737	06/04/2019	01/17/2020	2020	227	Solar	Level 1
19-04740	06/04/2019	06/12/2020	2020	374	Solar	Level 1
19-04747	06/04/2019	01/06/2020	2020	216	Solar	Level 1
19-04749	06/04/2019	04/26/2020	2020	327	Solar	Level 1
19-04771	06/05/2019	03/10/2020	2020	279	Solar	Level 1
19-04792	06/05/2019	03/09/2020	2020	278	Solar	Level 1
19-04797	06/05/2019	02/03/2020	2020	243	Solar	Level 1
19-04805	06/05/2019	10/22/2020	2020	505	Solar	Level 1
19-04811	06/05/2019	03/17/2020	2020	286	Solar	Level 1
19-04830	06/05/2019	03/06/2020	2020	275	Solar	Level 1
19-04834	06/06/2019	02/12/2020	2020	251	Solar	Level 1
19-04840	06/06/2019	04/07/2020	2020	306	Solar	Level 1
19-04841	06/06/2019	01/03/2020	2020	211	Solar	Level 1
19-04842	06/06/2019	02/13/2020	2020	252	Solar	Level 1
19-04866	06/06/2019	04/07/2020	2020	306	Solar	Level 1
19-04869	06/06/2019	02/13/2020	2020	252	Solar	Level 1
19-04875	06/06/2019	03/09/2020	2020	277	Solar	Level 1
19-04893	06/07/2019	08/30/2020	2020	450	Solar	Level 1
19-04896	06/07/2019	09/01/2020	2020	452	Solar	Level 1
19-04897	06/07/2019	02/07/2020	2020	245	Solar	Level 1
19-04918	06/09/2019	02/12/2020	2020	248	Solar	Level 1
19-04935	06/10/2019	03/17/2020	2020	281	Solar	Level 2
19-04955	06/10/2019	01/24/2020	2020	228	Solar	Level 1
19-04962	06/11/2019	04/13/2020	2020	307	Solar	Level 1
19-04964	06/11/2019	05/20/2020	2020	344	Solar	Level 1

19-04975	06/11/2019	01/14/2020	2020	217	Solar	Level 1
19-04989	06/11/2019	01/24/2020	2020	227	Solar	Level 1
19-05008	06/11/2019	04/13/2020	2020	307	Solar	Level 1
19-05024	06/12/2019	03/25/2020	2020	287	Solar	Level 1
19-05033	06/12/2019	03/13/2020	2020	275	Solar	Level 1
19-05035	06/12/2019	02/19/2020	2020	252	Solar	Level 1
19-05036	06/12/2019	03/02/2020	2020	264	Solar	Level 1
19-05037	06/12/2019	05/18/2020	2020	341	Solar	Level 1
19-05041	06/12/2019	05/18/2020	2020	341	Solar	Level 1
19-05048	06/12/2019	03/04/2020	2020	266	Solar	Level 1
19-05053	06/12/2019	06/01/2020	2020	355	Solar	Level 1
19-05060	06/12/2019	01/09/2020	2020	211	Solar	Level 1
19-05073	06/13/2019	01/17/2020	2020	218	Solar	Level 1
19-05081	06/13/2019	04/15/2020	2020	307	Solar	Level 1
19-05102	06/13/2019	02/12/2020	2020	244	Solar	Level 1
19-05103	06/13/2019	09/02/2020	2020	447	Solar	Level 1
19-05110	06/13/2019	10/09/2020	2020	484	Solar	Level 1
19-05111	06/13/2019	04/21/2020	2020	313	Solar	Level 1
19-05127	06/13/2019	01/03/2020	2020	204	Solar	Level 1
19-05149	06/14/2019	01/27/2020	2020	227	Solar	Level 1
19-05182	06/14/2019	01/29/2020	2020	229	Solar	Level 1
19-05187	06/14/2019	08/20/2020	2020	433	Solar	Level 1
19-05192	06/15/2019	01/09/2020	2020	208	Solar	Level 1
19-05194	06/15/2019	01/14/2020	2020	213	Solar	Level 1
19-05198	06/17/2019	04/13/2020	2020	301	Solar	Level 1
19-05201	06/17/2019	03/06/2020	2020	263	Solar	Level 1
19-05234	06/17/2019	01/17/2020	2020	214	Solar	Level 1
19-05243	06/17/2019	03/31/2020	2020	288	Solar	Level 1
19-05244	06/17/2019	09/17/2020	2020	458	Solar	Level 1
19-05246	06/17/2019	01/24/2020	2020	221	Solar	Level 1
19-05247	06/17/2019	03/30/2020	2020	287	Solar	Level 1
19-05259	06/18/2019	01/02/2020	2020	198	Solar	Level 1
19-05265	06/18/2019	12/14/2020	2020	545	Solar	Level 1
19-05293	06/18/2019	01/24/2020	2020	220	Solar	Level 1
19-05318	06/18/2019	04/20/2020	2020	307	Solar	Level 1
19-05326	06/19/2019	05/11/2020	2020	327	Solar	Level 1
19-05335	06/19/2019	11/25/2020	2020	525	Solar	Level 1
19-05355	06/19/2019	02/04/2020	2020	230	Solar	Level 1
19-05357	06/19/2019	02/27/2020	2020	253	Solar	Level 1
19-05358	06/19/2019	03/24/2020	2020	279	Solar	Level 1
19-05361	06/19/2019	10/26/2020	2020	495	Solar	Level 2

19-05369	06/19/2019	11/11/2020	2020	511	Solar	Level 2
19-05379	06/20/2019	06/23/2020	2020	369	Solar	Level 1
19-05397	06/20/2019	09/14/2020	2020	452	Solar	Level 1
19-05405	06/20/2019	01/24/2020	2020	218	Solar	Level 1
19-05407	06/20/2019	10/14/2020	2020	482	Solar	Level 1
19-05414	06/20/2019	03/02/2020	2020	256	Solar	Level 1
19-05416	06/20/2019	01/14/2020	2020	208	Solar	Level 1
19-05417	06/20/2019	10/21/2020	2020	489	Solar	Level 1
19-05432	06/20/2019	08/13/2020	2020	420	Solar	Level 1
19-05433	06/20/2019	08/20/2020	2020	427	Solar	Level 1
19-05436	06/21/2019	11/10/2020	2020	508	Solar	Level 2
19-05461	06/21/2019	03/24/2020	2020	277	Solar	Level 1
19-05469	06/21/2019	03/12/2020	2020	265	Solar	Level 1
19-05473	06/21/2019	11/30/2020	2020	528	Solar	Level 1
19-05474	06/21/2019	03/17/2020	2020	270	Solar	Level 1
19-05475	06/21/2019	03/11/2020	2020	264	Solar	Level 1
19-05490	06/24/2019	06/12/2020	2020	354	Solar	Level 1
19-05501	06/24/2019	02/13/2020	2020	234	Solar	Level 1
19-05514	06/24/2019	08/21/2020	2020	424	Solar	Level 1
19-05523	06/24/2019	01/09/2020	2020	199	Solar	Level 1
19-05528	06/24/2019	07/07/2020	2020	379	Solar	Level 1
19-05531	06/24/2019	07/20/2020	2020	392	Solar	Level 1
19-05549	06/24/2019	03/19/2020	2020	269	Solar	Level 1
19-05550	06/24/2019	03/06/2020	2020	256	Solar	Level 1
19-05552	06/24/2019	01/16/2020	2020	206	Solar	Level 1
19-05567	06/25/2019	03/19/2020	2020	268	Solar	Level 1
19-05579	06/25/2019	02/10/2020	2020	230	Solar	Level 1
19-05580	06/25/2019	01/06/2020	2020	195	Solar	Level 1
19-05599	06/25/2019	01/29/2020	2020	218	Solar	Level 1
19-05605	06/25/2019	01/27/2020	2020	216	Solar	Level 1
19-05618	06/25/2019	09/15/2020	2020	448	Solar	Level 1
19-05639	06/26/2019	01/09/2020	2020	197	Solar	Level 1
19-05643	06/26/2019	02/26/2020	2020	245	Solar	Level 1
19-05645	06/26/2019	01/27/2020	2020	215	Solar	Level 1
19-05652	06/26/2019	02/10/2020	2020	229	Solar	Level 1
19-05662	06/26/2019	02/28/2020	2020	247	Solar	Level 1
19-05664	06/26/2019	04/15/2020	2020	294	Solar	Level 1
19-05669	06/26/2019	02/24/2020	2020	243	Solar	Level 1
19-05696	06/27/2019	02/10/2020	2020	228	Solar	Level 1
19-05697	06/27/2019	01/30/2020	2020	217	Solar	Level 1
19-05720	06/27/2019	01/09/2020	2020	196	Solar	Level 1

19-05729	06/27/2019	01/02/2020	2020	189	Solar	Level 1
19-05731	06/27/2019	03/23/2020	2020	270	Solar	Level 1
19-05756	06/28/2019	05/26/2020	2020	333	Solar	Level 1
19-05767	06/28/2019	01/29/2020	2020	215	Solar	Level 1
19-05771	06/28/2019	01/09/2020	2020	195	Solar	Level 1
19-05778	06/28/2019	03/14/2020	2020	260	Solar	Level 1
19-05794	07/01/2019	01/24/2020	2020	207	Solar	Level 1
19-05812	07/01/2019	06/10/2020	2020	345	Solar	Level 1
19-05815	07/01/2019	04/20/2020	2020	294	Solar	Level 1
19-05817	07/01/2019	02/13/2020	2020	227	Solar	Level 1
19-05825	07/01/2019	02/06/2020	2020	220	Solar	Level 1
19-05829	07/01/2019	07/09/2020	2020	374	Solar	Level 1
19-05842	07/01/2019	10/14/2020	2020	471	Solar	Level 1
19-05854	07/02/2019	02/13/2020	2020	226	Solar	Level 1
19-05857	07/02/2019	02/10/2020	2020	223	Solar	Level 1
19-05858	07/02/2019	01/03/2020	2020	185	Solar	Level 1
19-05875	07/02/2019	07/13/2020	2020	377	Solar	Level 1
19-05880	07/02/2019	01/09/2020	2020	191	Solar	Level 1
19-05892	07/02/2019	02/20/2020	2020	233	Solar	Level 1
19-05905	07/02/2019	01/29/2020	2020	211	Solar	Level 1
19-05906	07/02/2019	06/11/2020	2020	345	Solar	Level 1
19-05907	07/02/2019	06/12/2020	2020	346	Solar	Level 1
19-05951	07/03/2019	01/14/2020	2020	195	Solar	Level 1
19-05956	07/03/2019	02/18/2020	2020	230	Solar	Level 1
19-05968	07/03/2019	04/14/2020	2020	286	Solar	Level 2
19-05975	07/05/2019	02/28/2020	2020	238	Solar	Level 1
19-05979	07/05/2019	08/23/2020	2020	415	Solar	Level 1
19-05981	07/05/2019	02/21/2020	2020	231	Solar	Level 1
19-05983	07/05/2019	02/07/2020	2020	217	Solar	Level 1
19-05991	07/05/2019	02/17/2020	2020	227	Solar	Level 1
19-05997	07/05/2019	02/13/2020	2020	223	Solar	Level 1
19-06001	07/05/2019	06/03/2020	2020	334	Solar	Level 1
19-06012	07/05/2019	01/16/2020	2020	195	Solar	Level 1
19-06031	07/05/2019	01/16/2020	2020	195	Solar	Level 1
19-06034	07/05/2019	03/02/2020	2020	241	Solar	Level 1
19-06035	07/05/2019	08/12/2020	2020	404	Solar	Level 1
19-06042	07/05/2019	03/23/2020	2020	262	Solar	Level 1
19-06046	07/05/2019	03/17/2020	2020	256	Solar	Level 1
19-06052	07/08/2019	04/27/2020	2020	294	Solar	Level 1
19-06065	07/08/2019	02/13/2020	2020	220	Solar	Level 1
19-06069	07/08/2019	07/22/2020	2020	380	Solar	Level 1

19-06077	07/08/2019	06/02/2020	2020	330	Solar	Level 1
19-06078	07/08/2019	03/20/2020	2020	256	Solar	Level 1
19-06079	07/08/2019	04/29/2020	2020	296	Solar	Level 1
19-06081	07/08/2019	03/18/2020	2020	254	Solar	Level 1
19-06083	07/08/2019	02/10/2020	2020	217	Solar	Level 1
19-06088	07/08/2019	02/13/2020	2020	220	Solar	Level 1
19-06094	07/08/2019	02/07/2020	2020	214	Solar	Level 1
19-06096	07/08/2019	06/29/2020	2020	357	Solar	Level 1
19-06107	07/08/2019	01/24/2020	2020	200	Solar	Level 1
19-06108	07/08/2019	05/18/2020	2020	315	Solar	Level 1
19-06112	07/08/2019	03/18/2020	2020	254	Solar	Level 1
19-06113	07/08/2019	01/28/2020	2020	204	Solar	Level 1
19-06133	07/09/2019	01/24/2020	2020	199	Solar	Level 1
19-06137	07/09/2019	10/06/2020	2020	455	Solar	Level 1
19-06138	07/09/2019	01/10/2020	2020	185	Solar	Level 1
19-06145	07/09/2019	04/15/2020	2020	281	Solar	Level 1
19-06152	07/09/2019	01/28/2020	2020	203	Solar	Level 1
19-06153	07/09/2019	01/23/2020	2020	198	Solar	Level 1
19-06162	07/09/2019	03/24/2020	2020	259	Solar	Level 1
19-06169	07/09/2019	05/11/2020	2020	307	Solar	Level 1
19-06172	07/09/2019	03/19/2020	2020	254	Solar	Level 1
19-06177	07/10/2019	08/21/2020	2020	408	Solar	Level 1
19-06208	07/10/2019	01/09/2020	2020	183	Solar	Level 1
19-06215	07/10/2019	06/12/2020	2020	338	Solar	Level 1
19-06220	07/10/2019	05/26/2020	2020	321	Solar	Level 1
19-06221	07/10/2019	06/12/2020	2020	338	Solar	Level 1
19-06222	07/10/2019	04/28/2020	2020	293	Solar	Level 1
19-06228	07/10/2019	09/25/2020	2020	443	Solar	Level 1
19-06238	07/10/2019	06/12/2020	2020	338	Solar	Level 1
19-06240	07/11/2019	05/13/2020	2020	307	Solar	Level 1
19-06242	07/11/2019	01/29/2020	2020	202	Solar	Level 1
19-06258	07/11/2019	04/07/2020	2020	271	Solar	Level 1
19-06266	07/11/2019	02/11/2020	2020	215	Solar	Level 1
19-06267	07/11/2019	03/17/2020	2020	250	Solar	Level 1
19-06272	07/11/2019	01/07/2020	2020	180	Solar	Level 4
19-06277	07/11/2019	02/12/2020	2020	216	Solar	Level 1
19-06280	07/11/2019	02/25/2020	2020	229	Solar	Level 1
19-06285	07/11/2019	05/06/2020	2020	300	Solar	Level 1
19-06293	07/11/2019	01/07/2020	2020	180	Solar	Level 1
19-06295	07/11/2019	02/13/2020	2020	217	Solar	Level 1
19-06308	07/12/2019	04/29/2020	2020	292	Solar	Level 1

19-06310	07/12/2019	05/19/2020	2020	312	Solar	Level 1
19-06315	07/12/2019	07/17/2020	2020	371	Solar	Level 1
19-06323	07/12/2019	03/17/2020	2020	249	Solar	Level 1
19-06328	07/12/2019	02/17/2020	2020	220	Solar	Level 1
19-06330	07/12/2019	03/16/2020	2020	248	Solar	Level 1
19-06332	07/12/2019	02/10/2020	2020	213	Solar	Level 1
19-06342	07/12/2019	02/05/2020	2020	208	Solar	Level 1
19-06353	07/12/2019	01/03/2020	2020	175	Solar	Level 1
19-06354	07/12/2019	02/13/2020	2020	216	Solar	Level 1
19-06363	07/15/2019	03/31/2020	2020	260	Solar	Level 1
19-06380	07/15/2019	03/18/2020	2020	247	Solar	Level 1
19-06382	07/15/2019	01/16/2020	2020	185	Solar	Level 1
19-06390	07/15/2019	11/09/2020	2020	483	Solar	Level 2
19-06395	07/15/2019	11/12/2020	2020	486	Solar	Level 2
19-06397	07/15/2019	06/03/2020	2020	324	Solar	Level 1
19-06399	07/15/2019	11/06/2020	2020	480	Solar	Level 1
19-06404	07/15/2019	08/14/2020	2020	396	Solar	Level 1
19-06410	07/15/2019	02/04/2020	2020	204	Solar	Level 2
19-06422	07/15/2019	04/07/2020	2020	267	Solar	Level 1
19-06428	07/15/2019	03/12/2020	2020	241	Solar	Level 1
19-06430	07/15/2019	03/09/2020	2020	238	Solar	Level 1
19-06438	07/15/2019	02/07/2020	2020	207	Solar	Level 1
19-06446	07/15/2019	02/17/2020	2020	217	Solar	Level 1
19-06458	07/16/2019	03/19/2020	2020	247	Solar	Level 1
19-06460	07/16/2019	02/12/2020	2020	211	Solar	Level 1
19-06476	07/16/2019	04/15/2020	2020	274	Solar	Level 1
19-06481	07/16/2019	02/13/2020	2020	212	Solar	Level 1
19-06483	07/16/2019	01/09/2020	2020	177	Solar	Level 1
19-06487	07/16/2019	10/23/2020	2020	465	Solar	Level 1
19-06493	07/16/2019	01/29/2020	2020	197	Solar	Level 1
19-06495	07/16/2019	09/09/2020	2020	421	Solar	Level 1
19-06503	07/16/2019	01/31/2020	2020	199	Solar	Level 1
19-06518	07/17/2019	06/29/2020	2020	348	Solar	Level 1
19-06519	07/17/2019	02/17/2020	2020	215	Solar	Level 1
19-06522	07/17/2019	01/08/2020	2020	175	Solar	Level 1
19-06523	07/17/2019	01/22/2020	2020	189	Solar	Level 1
19-06524	07/17/2019	01/24/2020	2020	191	Solar	Level 1
19-06530	07/17/2019	05/04/2020	2020	292	Solar	Level 1
19-06538	07/17/2019	01/17/2020	2020	184	Solar	Level 1
19-06547	07/17/2019	10/05/2020	2020	446	Solar	Level 1
19-06549	07/17/2019	06/11/2020	2020	330	Solar	Level 1

19-06558	07/17/2019	07/24/2020	2020	373	Solar	Level 1
19-06570	07/18/2019	02/20/2020	2020	217	Solar	Level 1
19-06579	07/18/2019	02/20/2020	2020	217	Solar	Level 1
19-06589	07/18/2019	03/24/2020	2020	250	Solar	Level 1
19-06602	07/18/2019	06/03/2020	2020	321	Solar	Level 1
19-06610	07/18/2019	01/02/2020	2020	168	Solar	Level 1
19-06613	07/18/2019	03/17/2020	2020	243	Solar	Level 1
19-06614	07/18/2019	05/26/2020	2020	313	Solar	Level 1
19-06625	07/18/2019	05/18/2020	2020	305	Solar	Level 1
19-06628	07/18/2019	01/28/2020	2020	194	Solar	Level 1
19-06636	07/19/2019	03/17/2020	2020	242	Solar	Level 1
19-06639	07/19/2019	07/20/2020	2020	367	Solar	Level 1
19-06642	07/19/2019	01/14/2020	2020	179	Solar	Level 1
19-06643	07/19/2019	02/07/2020	2020	203	Solar	Level 1
19-06665	07/19/2019	03/10/2020	2020	235	Solar	Level 1
19-06666	07/19/2019	02/10/2020	2020	206	Solar	Level 1
19-06673	07/19/2019	03/31/2020	2020	256	Solar	Level 1
19-06674	07/19/2019	01/02/2020	2020	167	Solar	Level 1
19-06680	07/19/2019	03/08/2020	2020	233	Solar	Level 1
19-06684	07/19/2019	05/04/2020	2020	290	Solar	Level 1
19-06686	07/19/2019	06/24/2020	2020	341	Solar	Level 1
19-06693	07/20/2019	06/03/2020	2020	319	Solar	Level 1
19-06694	07/20/2019	08/18/2020	2020	395	Solar	Level 1
19-06701	07/22/2019	09/06/2020	2020	412	Solar	Level 1
19-06708	07/22/2019	10/22/2020	2020	458	Solar	Level 1
19-06709	07/22/2019	02/12/2020	2020	205	Solar	Level 1
19-06712	07/22/2019	07/09/2020	2020	353	Solar	Level 1
19-06720	07/22/2019	06/25/2020	2020	339	Solar	Level 1
19-06722	07/22/2019	05/19/2020	2020	302	Solar	Level 1
19-06733	07/22/2019	02/28/2020	2020	221	Solar	Level 1
19-06738	07/22/2019	03/18/2020	2020	240	Solar	Level 1
19-06739	07/22/2019	03/17/2020	2020	239	Solar	Level 1
19-06740	07/22/2019	02/17/2020	2020	210	Solar	Level 1
19-06742	07/22/2019	03/19/2020	2020	241	Solar	Level 1
19-06746	07/22/2019	04/22/2020	2020	275	Solar	Level 1
19-06747	07/22/2019	10/22/2020	2020	458	Solar	Level 1
19-06753	07/22/2019	01/09/2020	2020	171	Solar	Level 1
19-06755	07/22/2019	02/13/2020	2020	206	Solar	Level 1
19-06766	07/22/2019	03/18/2020	2020	240	Solar	Level 1
19-06774	07/22/2019	03/17/2020	2020	239	Solar	Level 1
19-06782	07/22/2019	06/07/2020	2020	321	Solar	Level 1

19-06810	07/23/2019	02/07/2020	2020	199	Solar	Level 1
19-06811	07/23/2019	01/28/2020	2020	189	Solar	Level 1
19-06812	07/23/2019	02/06/2020	2020	198	Solar	Level 1
19-06816	07/23/2019	02/05/2020	2020	197	Solar	Level 1
19-06819	07/23/2019	10/14/2020	2020	449	Solar	Level 1
19-06820	07/23/2019	03/13/2020	2020	234	Solar	Level 1
19-06823	07/23/2019	08/20/2020	2020	394	Solar	Level 1
19-06835	07/23/2019	01/10/2020	2020	171	Solar	Level 1
19-06843	07/23/2019	06/25/2020	2020	338	Solar	Level 1
19-06847	07/23/2019	04/03/2020	2020	255	Solar	Level 1
19-06855	07/24/2019	04/23/2020	2020	274	Solar	Level 1
19-06858	07/24/2019	08/23/2020	2020	396	Solar	Level 1
19-06866	07/24/2019	06/22/2020	2020	334	Solar	Level 1
19-06891	07/24/2019	01/09/2020	2020	169	Solar	Level 1
19-06900	07/24/2019	05/18/2020	2020	299	Solar	Level 1
19-06905	07/25/2019	01/22/2020	2020	181	Solar	Level 2
19-06908	07/25/2019	04/03/2020	2020	253	Solar	Level 2
19-06915	07/25/2019	01/03/2020	2020	162	Solar	Level 1
19-06917	07/25/2019	08/13/2020	2020	385	Solar	Level 1
19-06923	07/25/2019	04/03/2020	2020	253	Solar	Level 1
19-06945	07/25/2019	01/17/2020	2020	176	Solar	Level 1
19-06948	07/25/2019	06/02/2020	2020	313	Solar	Level 1
19-06949	07/25/2019	02/07/2020	2020	197	Solar	Level 1
19-06956	07/25/2019	02/07/2020	2020	197	Solar	Level 1
19-06962	07/25/2019	08/21/2020	2020	393	Solar	Level 1
19-06964	07/25/2019	12/11/2020	2020	505	Solar	Level 1
19-06976	07/26/2019	03/19/2020	2020	237	Solar	Level 1
19-06978	07/26/2019	09/02/2020	2020	404	Solar	Level 1
19-06985	07/26/2019	01/17/2020	2020	175	Solar	Level 1
19-06986	07/26/2019	08/17/2020	2020	388	Solar	Level 1
19-07001	07/26/2019	08/20/2020	2020	391	Solar	Level 1
19-07002	07/26/2019	01/06/2020	2020	164	Solar	Level 1
19-07008	07/26/2019	11/06/2020	2020	469	Solar	Level 1
19-07021	07/26/2019	08/13/2020	2020	384	Solar	Level 1
19-07033	07/27/2019	08/21/2020	2020	391	Solar	Level 1
19-07040	07/29/2019	10/05/2020	2020	434	Solar	Level 1
19-07043	07/29/2019	02/04/2020	2020	190	Solar	Level 1
19-07044	07/29/2019	09/16/2020	2020	415	Solar	Level 1
19-07046	07/29/2019	02/07/2020	2020	193	Solar	Level 1
19-07055	07/29/2019	03/27/2020	2020	242	Solar	Level 1
19-07062	07/29/2019	08/14/2020	2020	382	Solar	Level 1

19-07070	07/29/2019	12/16/2020	2020	506	Solar	Level 1
19-07071	07/29/2019	10/19/2020	2020	448	Solar	Level 1
19-07087	07/30/2019	02/25/2020	2020	210	Solar	Level 1
19-07091	07/30/2019	12/09/2020	2020	498	Solar	Level 1
19-07092	07/30/2019	03/02/2020	2020	216	Solar	Level 1
19-07108	07/30/2019	01/14/2020	2020	168	Solar	Level 1
19-07113	07/30/2019	08/20/2020	2020	387	Solar	Level 1
19-07115	07/30/2019	03/11/2020	2020	225	Solar	Level 1
19-07118	07/30/2019	02/19/2020	2020	204	Solar	Level 1
19-07121	07/30/2019	04/20/2020	2020	265	Solar	Level 1
19-07133	07/31/2019	04/15/2020	2020	259	Solar	Level 1
19-07141	07/31/2019	11/06/2020	2020	464	Solar	Level 1
19-07142	07/31/2019	09/28/2020	2020	425	Solar	Level 1
19-07145	07/31/2019	01/07/2020	2020	160	Solar	Level 1
19-07150	07/31/2019	01/29/2020	2020	182	Solar	Level 1
19-07163	07/31/2019	08/14/2020	2020	380	Solar	Level 1
19-07166	07/31/2019	06/14/2020	2020	319	Solar	Level 1
19-07167	07/31/2019	05/06/2020	2020	280	Solar	Level 1
19-07170	07/31/2019	06/30/2020	2020	335	Solar	Level 1
19-07176	07/31/2019	08/21/2020	2020	387	Solar	Level 1
19-07178	07/31/2019	07/22/2020	2020	357	Solar	Level 1
19-07185	07/31/2019	03/04/2020	2020	217	Solar	Level 1
19-07186	07/31/2019	03/30/2020	2020	243	Solar	Level 1
19-07190	07/31/2019	07/20/2020	2020	355	Solar	Level 1
19-07196	07/31/2019	01/30/2020	2020	183	Solar	Level 1
19-07204	07/31/2019	08/12/2020	2020	378	Solar	Level 1
19-07206	07/31/2019	01/24/2020	2020	177	Solar	Level 4
19-07210	07/31/2019	02/24/2020	2020	208	Solar	Level 1
19-07216	08/01/2019	03/18/2020	2020	230	Solar	Level 1
19-07219	08/01/2019	02/28/2020	2020	211	Solar	Level 1
19-07222	08/01/2019	01/14/2020	2020	166	Solar	Level 1
19-07224	08/01/2019	01/07/2020	2020	159	Solar	Level 1
19-07229	08/01/2019	10/09/2020	2020	435	Solar	Level 1
19-07233	08/01/2019	01/09/2020	2020	161	Solar	Level 1
19-07237	08/01/2019	02/19/2020	2020	202	Solar	Level 1
19-07248	08/01/2019	12/14/2020	2020	501	Solar	Level 1
19-07256	08/01/2019	01/09/2020	2020	161	Solar	Level 1
19-07264	08/01/2019	06/29/2020	2020	333	Solar	Level 1
19-07265	08/01/2019	06/11/2020	2020	315	Solar	Level 1
19-07267	08/02/2019	01/09/2020	2020	160	Solar	Level 1
19-07278	08/02/2019	09/28/2020	2020	423	Solar	Level 1

19-07285	08/02/2019	02/19/2020	2020	201	Solar	Level 1
19-07286	08/02/2019	03/10/2020	2020	221	Solar	Level 1
19-07288	08/02/2019	05/05/2020	2020	277	Solar	Level 1
19-07291	08/02/2019	01/28/2020	2020	179	Solar	Level 1
19-07293	08/02/2019	01/09/2020	2020	160	Solar	Level 1
19-07295	08/02/2019	09/17/2020	2020	412	Solar	Level 1
19-07296	08/02/2019	01/14/2020	2020	165	Solar	Level 1
19-07298	08/02/2019	02/13/2020	2020	195	Solar	Level 1
19-07306	08/02/2019	10/13/2020	2020	438	Solar	Level 1
19-07315	08/02/2019	07/24/2020	2020	357	Solar	Level 1
19-07319	08/02/2019	03/19/2020	2020	230	Solar	Level 1
19-07320	08/02/2019	01/28/2020	2020	179	Solar	Level 1
19-07321	08/02/2019	06/22/2020	2020	325	Solar	Level 1
19-07322	08/02/2019	04/14/2020	2020	256	Solar	Level 1
19-07326	08/02/2019	04/07/2020	2020	249	Solar	Level 1
19-07329	08/02/2019	02/27/2020	2020	209	Solar	Level 1
19-07334	08/02/2019	02/19/2020	2020	201	Solar	Level 1
19-07335	08/02/2019	03/10/2020	2020	221	Solar	Level 1
19-07337	08/02/2019	07/22/2020	2020	355	Solar	Level 1
19-07349	08/05/2019	02/13/2020	2020	192	Solar	Level 1
19-07353	08/05/2019	03/09/2020	2020	217	Solar	Level 1
19-07359	08/05/2019	01/27/2020	2020	175	Solar	Level 1
19-07360	08/05/2019	01/28/2020	2020	176	Solar	Level 1
19-07365	08/05/2019	06/22/2020	2020	322	Solar	Level 1
19-07372	08/05/2019	03/03/2020	2020	211	Solar	Level 1
19-07375	08/05/2019	03/11/2020	2020	219	Solar	Level 1
19-07377	08/05/2019	08/21/2020	2020	382	Solar	Level 1
19-07378	08/05/2019	02/10/2020	2020	189	Solar	Level 1
19-07379	08/05/2019	01/17/2020	2020	165	Solar	Level 1
19-07383	08/05/2019	01/15/2020	2020	163	Solar	Level 1
19-07390	08/05/2019	10/05/2020	2020	427	Solar	Level 1
19-07394	08/05/2019	07/24/2020	2020	354	Solar	Level 1
19-07395	08/05/2019	01/16/2020	2020	164	Solar	Level 1
19-07397	08/05/2019	01/23/2020	2020	171	Solar	Level 1
19-07400	08/05/2019	01/28/2020	2020	176	Solar	Level 1
19-07406	08/05/2019	02/10/2020	2020	189	Solar	Level 1
19-07409	08/05/2019	03/17/2020	2020	225	Solar	Level 1
19-07412	08/05/2019	01/29/2020	2020	177	Solar	Level 1
19-07414	08/05/2019	12/21/2020	2020	504	Solar	Level 2
19-07420	08/05/2019	09/13/2020	2020	405	Solar	Level 1
19-07426	08/05/2019	06/29/2020	2020	329	Solar	Level 1

19-07436	08/06/2019	03/06/2020	2020	213	Solar	Level 1
19-07438	08/06/2019	05/19/2020	2020	287	Solar	Level 1
19-07444	08/06/2019	09/09/2020	2020	400	Solar	Level 1
19-07448	08/06/2019	03/27/2020	2020	234	Solar	Level 1
19-07451	08/06/2019	03/11/2020	2020	218	Solar	Level 1
19-07453	08/06/2019	03/18/2020	2020	225	Solar	Level 1
19-07455	08/06/2019	02/03/2020	2020	181	Solar	Level 1
19-07456	08/06/2019	02/28/2020	2020	206	Solar	Level 1
19-07457	08/06/2019	01/09/2020	2020	156	Solar	Level 1
19-07464	08/06/2019	02/26/2020	2020	204	Storage	Level 2
19-07467	08/06/2019	09/02/2020	2020	393	Solar	Level 1
19-07470	08/06/2019	01/13/2020	2020	160	Solar	Level 1
19-07471	08/06/2019	07/22/2020	2020	351	Solar	Level 1
19-07472	08/06/2019	01/16/2020	2020	163	Solar	Level 1
19-07473	08/06/2019	01/16/2020	2020	163	Solar	Level 1
19-07489	08/07/2019	02/04/2020	2020	181	Solar	Level 1
19-07498	08/07/2019	03/27/2020	2020	233	Solar	Level 1
19-07505	08/07/2019	02/06/2020	2020	183	Solar	Level 1
19-07510	08/07/2019	02/04/2020	2020	181	Solar	Level 1
19-07511	08/07/2019	01/02/2020	2020	148	Solar	Level 1
19-07519	08/07/2019	08/26/2020	2020	385	Solar	Level 1
19-07520	08/07/2019	08/18/2020	2020	377	Solar	Level 1
19-07521	08/07/2019	02/10/2020	2020	187	Solar	Level 1
19-07522	08/07/2019	02/04/2020	2020	181	Solar	Level 1
19-07523	08/07/2019	05/11/2020	2020	278	Solar	Level 1
19-07541	08/07/2019	02/24/2020	2020	201	Solar	Level 1
19-07544	08/07/2019	01/24/2020	2020	170	Solar	Level 1
19-07546	08/07/2019	09/16/2020	2020	406	Solar	Level 1
19-07550	08/07/2019	03/24/2020	2020	230	Solar	Level 1
19-07551	08/07/2019	01/21/2020	2020	167	Solar	Level 1
19-07553	08/07/2019	03/24/2020	2020	230	Solar	Level 1
19-07554	08/07/2019	05/19/2020	2020	286	Solar	Level 1
19-07556	08/07/2019	01/29/2020	2020	175	Solar	Level 1
19-07557	08/07/2019	01/02/2020	2020	148	Solar	Level 1
19-07558	08/07/2019	02/28/2020	2020	205	Solar	Level 1
19-07567	08/08/2019	02/12/2020	2020	188	Solar	Level 1
19-07571	08/08/2019	01/30/2020	2020	175	Solar	Level 1
19-07576	08/08/2019	06/30/2020	2020	327	Solar	Level 1
19-07582	08/08/2019	07/24/2020	2020	351	Solar	Level 1
19-07584	08/08/2019	03/04/2020	2020	209	Solar	Level 1
19-07587	08/08/2019	04/21/2020	2020	257	Solar	Level 1

19-07589	08/08/2019	01/10/2020	2020	155	Solar	Level 1
19-07591	08/08/2019	03/02/2020	2020	207	Solar	Level 1
19-07593	08/08/2019	03/09/2020	2020	214	Solar	Level 1
19-07596	08/08/2019	06/09/2020	2020	306	Solar	Level 1
19-07597	08/08/2019	07/24/2020	2020	351	Solar	Level 1
19-07598	08/08/2019	05/26/2020	2020	292	Solar	Level 1
19-07599	08/08/2019	05/07/2020	2020	273	Solar	Level 1
19-07612	08/08/2019	10/22/2020	2020	441	Solar	Level 1
19-07615	08/08/2019	02/24/2020	2020	200	Solar	Level 1
19-07618	08/09/2019	02/25/2020	2020	200	Solar	Level 1
19-07624	08/09/2019	09/28/2020	2020	416	Solar	Level 1
19-07625	08/09/2019	02/04/2020	2020	179	Solar	Level 1
19-07627	08/09/2019	01/27/2020	2020	171	Solar	Level 1
19-07647	08/09/2019	08/20/2020	2020	377	Solar	Level 1
19-07653	08/09/2019	02/13/2020	2020	188	Solar	Level 1
19-07655	08/09/2019	01/10/2020	2020	154	Solar	Level 1
19-07657	08/09/2019	03/10/2020	2020	214	Solar	Level 1
19-07660	08/09/2019	05/04/2020	2020	269	Solar	Level 1
19-07662	08/09/2019	08/10/2020	2020	367	Solar	Level 1
19-07664	08/09/2019	06/02/2020	2020	298	Solar	Level 1
19-07673	08/12/2019	02/06/2020	2020	178	Solar	Level 1
19-07675	08/12/2019	04/03/2020	2020	235	Solar	Level 1
19-07680	08/12/2019	08/10/2020	2020	364	Solar	Level 1
19-07681	08/12/2019	05/12/2020	2020	274	Solar	Level 1
19-07682	08/12/2019	10/14/2020	2020	429	Solar	Level 1
19-07683	08/12/2019	01/24/2020	2020	165	Solar	Level 1
19-07689	08/12/2019	09/21/2020	2020	406	Solar	Level 1
19-07695	08/12/2019	03/09/2020	2020	210	Solar	Level 1
19-07696	08/12/2019	02/19/2020	2020	191	Solar	Level 1
19-07704	08/12/2019	03/06/2020	2020	207	Solar	Level 1
19-07717	08/12/2019	03/19/2020	2020	220	Solar	Level 1
19-07731	08/13/2019	03/03/2020	2020	203	Solar	Level 1
19-07737	08/13/2019	02/19/2020	2020	190	Solar	Level 1
19-07753	08/13/2019	10/23/2020	2020	437	Solar	Level 2
19-07759	08/13/2019	04/13/2020	2020	244	Solar	Level 1
19-07761	08/13/2019	08/17/2020	2020	370	Solar	Level 1
19-07762	08/13/2019	03/18/2020	2020	218	Solar	Level 1
19-07763	08/13/2019	01/09/2020	2020	149	Solar	Level 1
19-07777	08/13/2019	01/28/2020	2020	168	Solar	Level 1
19-07780	08/13/2019	11/17/2020	2020	462	Solar	Level 1
19-07787	08/14/2019	01/24/2020	2020	163	Solar	Level 1

19-07792	08/14/2019	01/24/2020	2020	163	Solar	Level 1
19-07793	08/14/2019	01/15/2020	2020	154	Solar	Level 1
19-07794	08/14/2019	04/23/2020	2020	253	Solar	Level 1
19-07795	08/14/2019	09/20/2020	2020	403	Solar	Level 1
19-07796	08/14/2019	01/24/2020	2020	163	Solar	Level 1
19-07811	08/14/2019	06/01/2020	2020	292	Solar	Level 1
19-07816	08/14/2019	06/02/2020	2020	293	Solar	Level 1
19-07817	08/14/2019	01/23/2020	2020	162	Solar	Level 1
19-07821	08/14/2019	01/09/2020	2020	148	Solar	Level 1
19-07825	08/14/2019	09/02/2020	2020	385	Solar	Level 1
19-07827	08/14/2019	01/06/2020	2020	145	Solar	Level 1
19-07834	08/14/2019	02/04/2020	2020	174	Solar	Level 1
19-07837	08/14/2019	03/03/2020	2020	202	Solar	Level 1
19-07838	08/14/2019	09/11/2020	2020	394	Solar	Level 1
19-07841	08/14/2019	03/17/2020	2020	216	Solar	Level 1
19-07845	08/14/2019	01/27/2020	2020	166	Solar	Level 1
19-07846	08/14/2019	04/27/2020	2020	257	Solar	Level 1
19-07848	08/14/2019	02/19/2020	2020	189	Solar	Level 1
19-07850	08/14/2019	05/04/2020	2020	264	Solar	Level 1
19-07854	08/14/2019	02/10/2020	2020	180	Solar	Level 1
19-07858	08/15/2019	02/04/2020	2020	173	Solar	Level 1
19-07859	08/15/2019	02/18/2020	2020	187	Solar	Level 1
19-07861	08/15/2019	06/12/2020	2020	302	Solar	Level 1
19-07864	08/15/2019	03/24/2020	2020	222	Solar	Level 1
19-07865	08/15/2019	02/10/2020	2020	179	Solar	Level 1
19-07867	08/15/2019	01/31/2020	2020	169	Solar	Level 1
19-07868	08/15/2019	04/10/2020	2020	239	Solar	Level 1
19-07869	08/15/2019	02/13/2020	2020	182	Solar	Level 4
19-07871	08/15/2019	03/31/2020	2020	229	Solar	Level 1
19-07878	08/15/2019	08/21/2020	2020	372	Solar	Level 1
19-07879	08/15/2019	08/14/2020	2020	365	Solar	Level 1
19-07881	08/15/2019	04/27/2020	2020	256	Solar	Level 1
19-07885	08/15/2019	01/29/2020	2020	167	Solar	Level 1
19-07893	08/15/2019	06/30/2020	2020	320	Solar	Level 1
19-07894	08/15/2019	01/23/2020	2020	161	Solar	Level 1
19-07896	08/15/2019	03/17/2020	2020	215	Solar	Level 1
19-07905	08/15/2019	03/12/2020	2020	210	Solar	Level 1
19-07906	08/15/2019	05/19/2020	2020	278	Solar	Level 1
19-07907	08/15/2019	01/31/2020	2020	169	Solar	Level 1
19-07908	08/15/2019	06/12/2020	2020	302	Solar	Level 1
19-07909	08/15/2019	02/25/2020	2020	194	Solar	Level 1

19-07912	08/15/2019	01/28/2020	2020	166	Solar	Level 1
19-07914	08/15/2019	05/29/2020	2020	288	Solar	Level 1
19-07915	08/15/2019	01/29/2020	2020	167	Solar	Level 1
19-07918	08/15/2019	02/28/2020	2020	197	Solar	Level 1
19-07919	08/15/2019	02/19/2020	2020	188	Solar	Level 1
19-07926	08/15/2019	02/07/2020	2020	176	Solar	Level 1
19-07927	08/15/2019	05/05/2020	2020	264	Solar	Level 1
19-07930	08/15/2019	02/17/2020	2020	186	Solar	Level 1
19-07931	08/15/2019	01/28/2020	2020	166	Solar	Level 1
19-07934	08/16/2019	01/09/2020	2020	146	Solar	Level 1
19-07936	08/16/2019	01/15/2020	2020	152	Solar	Level 1
19-07937	08/16/2019	08/25/2020	2020	375	Solar	Level 1
19-07941	08/16/2019	10/23/2020	2020	434	Solar	Level 1
19-07942	08/16/2019	05/06/2020	2020	264	Solar	Level 1
19-07943	08/16/2019	03/31/2020	2020	228	Solar	Level 1
19-07947	08/16/2019	04/07/2020	2020	235	Solar	Level 1
19-07949	08/16/2019	02/26/2020	2020	194	Solar	Level 1
19-07954	08/16/2019	09/11/2020	2020	392	Solar	Level 1
19-07961	08/16/2019	04/13/2020	2020	241	Solar	Level 1
19-07964	08/16/2019	01/27/2020	2020	164	Solar	Level 1
19-07969	08/16/2019	04/09/2020	2020	237	Solar	Level 1
19-07972	08/16/2019	09/02/2020	2020	383	Solar	Level 1
19-07974	08/16/2019	03/17/2020	2020	214	Solar	Level 1
19-07978	08/16/2019	03/17/2020	2020	214	Solar	Level 1
19-07986	08/16/2019	06/12/2020	2020	301	Solar	Level 1
19-07987	08/16/2019	06/25/2020	2020	314	Solar	Level 1
19-07990	08/16/2019	03/30/2020	2020	227	Solar	Level 1
19-07996	08/16/2019	01/07/2020	2020	144	Solar	Level 1
19-07998	08/16/2019	03/06/2020	2020	203	Solar	Level 1
19-08002	08/16/2019	01/09/2020	2020	146	Solar	Level 1
19-08007	08/16/2019	03/02/2020	2020	199	Solar	Level 1
19-08017	08/19/2019	01/17/2020	2020	151	Solar	Level 1
19-08019	08/19/2019	01/17/2020	2020	151	Solar	Level 1
19-08026	08/19/2019	11/06/2020	2020	445	Solar	Level 1
19-08028	08/19/2019	01/28/2020	2020	162	Solar	Level 1
19-08041	08/19/2019	01/07/2020	2020	141	Solar	Level 1
19-08042	08/19/2019	01/28/2020	2020	162	Solar	Level 1
19-08047	08/19/2019	04/08/2020	2020	233	Solar	Level 1
19-08051	08/19/2019	02/27/2020	2020	192	Solar	Level 1
19-08052	08/19/2019	01/24/2020	2020	158	Solar	Level 1
19-08055	08/19/2019	04/27/2020	2020	252	Solar	Level 1

19-08056	08/19/2019	04/24/2020	2020	249	Solar	Level 1
19-08058	08/19/2019	02/27/2020	2020	192	Solar	Level 1
19-08059	08/19/2019	08/05/2020	2020	352	Solar	Level 1
19-08066	08/19/2019	01/14/2020	2020	148	Solar	Level 1
19-08068	08/19/2019	01/24/2020	2020	158	Solar	Level 1
19-08070	08/19/2019	05/12/2020	2020	267	Solar	Level 1
19-08071	08/19/2019	04/13/2020	2020	238	Solar	Level 1
19-08072	08/19/2019	01/06/2020	2020	140	Solar	Level 1
19-08073	08/19/2019	01/16/2020	2020	150	Solar	Level 1
19-08077	08/19/2019	02/03/2020	2020	168	Solar	Level 1
19-08079	08/19/2019	03/05/2020	2020	199	Solar	Level 1
19-08081	08/19/2019	08/14/2020	2020	361	Solar	Level 1
19-08084	08/19/2019	01/27/2020	2020	161	Solar	Level 1
19-08087	08/19/2019	01/15/2020	2020	149	Solar	Level 1
19-08096	08/19/2019	01/14/2020	2020	148	Solar	Level 1
19-08102	08/19/2019	01/09/2020	2020	143	Solar	Level 1
19-08111	08/19/2019	06/16/2020	2020	302	Solar	Level 1
19-08124	08/20/2019	07/24/2020	2020	339	Solar	Level 1
19-08130	08/20/2019	01/28/2020	2020	161	Solar	Level 1
19-08133	08/20/2019	03/18/2020	2020	211	Solar	Level 1
19-08134	08/20/2019	01/06/2020	2020	139	Solar	Level 2
19-08135	08/20/2019	03/19/2020	2020	212	Solar	Level 1
19-08144	08/20/2019	02/03/2020	2020	167	Solar	Level 1
19-08145	08/20/2019	06/12/2020	2020	297	Solar	Level 1
19-08147	08/20/2019	06/17/2020	2020	302	Solar	Level 1
19-08151	08/20/2019	01/27/2020	2020	160	Solar	Level 1
19-08157	08/20/2019	08/18/2020	2020	364	Solar	Level 1
19-08162	08/20/2019	02/28/2020	2020	192	Solar	Level 1
19-08163	08/20/2019	03/16/2020	2020	209	Solar	Level 1
19-08164	08/20/2019	06/12/2020	2020	297	Solar	Level 1
19-08166	08/20/2019	03/13/2020	2020	206	Solar	Level 1
19-08175	08/21/2019	01/06/2020	2020	138	Solar	Level 1
19-08176	08/21/2019	01/16/2020	2020	148	Solar	Level 1
19-08179	08/21/2019	01/24/2020	2020	156	Solar	Level 2
19-08182	08/21/2019	02/13/2020	2020	176	Solar	Level 1
19-08189	08/21/2019	03/17/2020	2020	209	Solar	Level 1
19-08192	08/21/2019	03/24/2020	2020	216	Solar	Level 1
19-08196	08/21/2019	06/18/2020	2020	302	Solar	Level 1
19-08200	08/21/2019	10/20/2020	2020	426	Solar	Level 1
19-08204	08/21/2019	04/15/2020	2020	238	Solar	Level 1
19-08206	08/21/2019	09/08/2020	2020	384	Solar	Level 1

19-08208	08/21/2019	09/09/2020	2020	385	Solar	Level 1
19-08211	08/21/2019	02/12/2020	2020	175	Solar	Level 1
19-08213	08/21/2019	02/19/2020	2020	182	Solar	Level 1
19-08215	08/21/2019	01/09/2020	2020	141	Solar	Level 1
19-08216	08/21/2019	01/14/2020	2020	146	Solar	Level 1
19-08218	08/21/2019	06/03/2020	2020	287	Solar	Level 1
19-08219	08/21/2019	01/21/2020	2020	153	Solar	Level 1
19-08220	08/21/2019	09/20/2020	2020	396	Solar	Level 1
19-08222	08/21/2019	07/20/2020	2020	334	Solar	Level 1
19-08235	08/22/2019	01/16/2020	2020	147	Solar	Level 1
19-08236	08/22/2019	05/18/2020	2020	270	Solar	Level 1
19-08237	08/22/2019	06/22/2020	2020	305	Solar	Level 1
19-08240	08/22/2019	06/12/2020	2020	295	Solar	Level 1
19-08246	08/22/2019	02/26/2020	2020	188	Solar	Level 1
19-08247	08/22/2019	01/09/2020	2020	140	Solar	Level 1
19-08252	08/22/2019	01/10/2020	2020	141	Solar	Level 1
19-08259	08/22/2019	09/17/2020	2020	392	Solar	Level 1
19-08264	08/22/2019	04/15/2020	2020	237	Solar	Level 1
19-08268	08/22/2019	02/05/2020	2020	167	Solar	Level 1
19-08269	08/22/2019	06/24/2020	2020	307	Solar	Level 1
19-08271	08/22/2019	03/20/2020	2020	211	Solar	Level 1
19-08272	08/22/2019	02/13/2020	2020	175	Solar	Level 1
19-08273	08/22/2019	02/28/2020	2020	190	Solar	Level 1
19-08281	08/22/2019	02/19/2020	2020	181	Solar	Level 1
19-08282	08/22/2019	02/06/2020	2020	168	Solar	Level 1
19-08283	08/22/2019	06/25/2020	2020	308	Solar	Level 1
19-08290	08/22/2019	04/20/2020	2020	242	Solar	Level 1
19-08291	08/22/2019	11/27/2020	2020	463	Solar	Level 1
19-08294	08/14/2019	03/17/2020	2020	216	Solar	Level 1
19-08298	08/23/2019	07/20/2020	2020	332	Solar	Level 1
19-08302	08/23/2019	04/07/2020	2020	228	Solar	Level 1
19-08304	08/23/2019	02/13/2020	2020	174	Solar	Level 1
19-08308	08/23/2019	01/13/2020	2020	143	Solar	Level 1
19-08315	08/23/2019	08/25/2020	2020	368	Solar	Level 2
19-08318	08/23/2019	09/10/2020	2020	384	Solar	Level 1
19-08322	08/23/2019	01/10/2020	2020	140	Solar	Level 1
19-08332	08/23/2019	01/24/2020	2020	154	Solar	Level 1
19-08334	08/23/2019	10/07/2020	2020	411	Solar	Level 1
19-08336	08/23/2019	03/23/2020	2020	213	Solar	Level 1
19-08340	08/23/2019	03/03/2020	2020	193	Solar	Level 1
19-08343	08/23/2019	09/23/2020	2020	397	Solar	Level 1

19-08344	08/23/2019	01/29/2020	2020	159	Solar	Level 1
19-08348	08/26/2019	04/07/2020	2020	225	Solar	Level 1
19-08349	08/26/2019	03/17/2020	2020	204	Solar	Level 1
19-08366	08/26/2019	03/16/2020	2020	203	Solar	Level 1
19-08367	08/26/2019	02/28/2020	2020	186	Solar	Level 1
19-08369	08/26/2019	03/02/2020	2020	189	Solar	Level 1
19-08370	08/26/2019	01/27/2020	2020	154	Solar	Level 1
19-08371	08/26/2019	04/24/2020	2020	242	Solar	Level 1
19-08373	08/26/2019	01/28/2020	2020	155	Solar	Level 1
19-08376	08/26/2019	04/20/2020	2020	238	Solar	Level 1
19-08380	08/26/2019	08/06/2020	2020	346	Solar	Level 1
19-08383	08/26/2019	02/07/2020	2020	165	Solar	Level 1
19-08392	08/26/2019	03/16/2020	2020	203	Solar	Level 1
19-08394	08/26/2019	02/13/2020	2020	171	Solar	Level 1
19-08401	08/26/2019	01/16/2020	2020	143	Solar	Level 1
19-08403	08/26/2019	01/24/2020	2020	151	Solar	Level 1
19-08408	08/27/2019	01/13/2020	2020	139	Solar	Level 1
19-08417	08/27/2019	09/27/2020	2020	397	Solar	Level 1
19-08420	08/27/2019	01/22/2020	2020	148	Solar	Level 2
19-08430	08/27/2019	06/29/2020	2020	307	Solar	Level 1
19-08439	08/27/2019	01/17/2020	2020	143	Solar	Level 1
19-08442	08/27/2019	01/13/2020	2020	139	Solar	Level 1
19-08457	08/27/2019	04/07/2020	2020	224	Solar	Level 1
19-08465	08/28/2019	06/03/2020	2020	280	Solar	Level 1
19-08470	08/28/2019	08/15/2020	2020	353	Solar	Level 1
19-08474	08/28/2019	02/07/2020	2020	163	Solar	Level 1
19-08476	08/28/2019	01/21/2020	2020	146	Solar	Level 1
19-08479	08/28/2019	05/06/2020	2020	252	Solar	Level 1
19-08480	08/28/2019	02/03/2020	2020	159	Solar	Level 1
19-08487	08/28/2019	07/17/2020	2020	324	Solar	Level 1
19-08489	08/28/2019	01/27/2020	2020	152	Solar	Level 1
19-08494	08/28/2019	01/31/2020	2020	156	Solar	Level 1
19-08496	08/28/2019	06/25/2020	2020	302	Solar	Level 1
19-08500	08/28/2019	01/09/2020	2020	134	Solar	Level 1
19-08501	08/28/2019	02/27/2020	2020	183	Solar	Level 1
19-08506	08/28/2019	01/14/2020	2020	139	Solar	Level 1
19-08514	08/28/2019	01/31/2020	2020	156	Solar	Level 4
19-08515	08/28/2019	03/17/2020	2020	202	Solar	Level 1
19-08522	08/28/2019	08/30/2020	2020	368	Solar	Level 1
19-08539	08/29/2019	03/11/2020	2020	195	Solar	Level 1
19-08550	08/29/2019	02/07/2020	2020	162	Solar	Level 1

19-08554	08/29/2019	05/11/2020	2020	256	Solar	Level 1
19-08555	08/29/2019	01/28/2020	2020	152	Solar	Level 1
19-08556	08/29/2019	04/13/2020	2020	228	Solar	Level 1
19-08557	08/29/2019	03/05/2020	2020	189	Solar	Level 1
19-08560	08/29/2019	02/07/2020	2020	162	Solar	Level 1
19-08567	08/29/2019	02/13/2020	2020	168	Solar	Level 1
19-08568	08/29/2019	03/17/2020	2020	201	Solar	Level 1
19-08569	08/29/2019	01/24/2020	2020	148	Solar	Level 1
19-08570	08/29/2019	02/13/2020	2020	168	Solar	Level 1
19-08571	08/29/2019	02/04/2020	2020	159	Solar	Level 1
19-08573	08/29/2019	05/06/2020	2020	251	Solar	Level 1
19-08580	08/29/2019	02/21/2020	2020	176	Solar	Level 1
19-08585	08/29/2019	10/06/2020	2020	404	Solar	Level 1
19-08588	08/29/2019	01/29/2020	2020	153	Solar	Level 1
19-08589	08/29/2019	01/27/2020	2020	151	Solar	Level 1
19-08591	08/29/2019	06/04/2020	2020	280	Solar	Level 1
19-08593	08/29/2019	04/09/2020	2020	224	Solar	Level 1
19-08594	08/29/2019	03/12/2020	2020	196	Solar	Level 1
19-08597	08/29/2019	06/12/2020	2020	288	Solar	Level 1
19-08598	08/29/2019	01/24/2020	2020	148	Solar	Level 1
19-08600	08/29/2019	04/20/2020	2020	235	Solar	Level 1
19-08601	08/29/2019	10/21/2020	2020	419	Solar	Level 1
19-08612	08/30/2019	03/17/2020	2020	200	Solar	Level 1
19-08617	08/30/2019	01/28/2020	2020	151	Solar	Level 1
19-08620	08/30/2019	02/03/2020	2020	157	Solar	Level 1
19-08621	08/30/2019	01/17/2020	2020	140	Solar	Level 1
19-08623	08/30/2019	04/07/2020	2020	221	Solar	Level 1
19-08624	08/30/2019	01/30/2020	2020	153	Solar	Level 1
19-08625	08/30/2019	01/21/2020	2020	144	Solar	Level 1
19-08626	08/30/2019	01/28/2020	2020	151	Solar	Level 1
19-08629	08/30/2019	03/17/2020	2020	200	Solar	Level 1
19-08630	08/30/2019	03/17/2020	2020	200	Solar	Level 1
19-08631	08/30/2019	06/03/2020	2020	278	Solar	Level 1
19-08632	08/30/2019	01/10/2020	2020	133	Solar	Level 1
19-08634	08/30/2019	01/29/2020	2020	152	Solar	Level 1
19-08635	08/30/2019	04/27/2020	2020	241	Solar	Level 1
19-08637	08/30/2019	01/27/2020	2020	150	Solar	Level 1
19-08638	08/30/2019	02/10/2020	2020	164	Solar	Level 1
19-08641	08/30/2019	05/19/2020	2020	263	Solar	Level 1
19-08644	08/30/2019	09/23/2020	2020	390	Solar	Level 1
19-08646	08/30/2019	02/24/2020	2020	178	Solar	Level 1

19-08650	08/30/2019	02/05/2020	2020	159	Solar	Level 1
19-08651	08/30/2019	03/03/2020	2020	186	Solar	Level 1
19-08652	08/30/2019	03/18/2020	2020	201	Solar	Level 1
19-08654	08/30/2019	01/24/2020	2020	147	Solar	Level 1
19-08658	08/30/2019	02/17/2020	2020	171	Solar	Level 1
19-08659	08/30/2019	08/19/2020	2020	355	Solar	Level 1
19-08661	08/30/2019	01/17/2020	2020	140	Solar	Level 1
19-08662	08/30/2019	01/27/2020	2020	150	Solar	Level 1
19-08667	08/30/2019	07/31/2020	2020	336	Solar	Level 1
19-08668	08/30/2019	04/23/2020	2020	237	Solar	Level 1
19-08671	08/30/2019	07/31/2020	2020	336	Solar	Level 1
19-08673	08/30/2019	03/16/2020	2020	199	Solar	Level 1
19-08679	09/01/2019	02/07/2020	2020	159	Solar	Level 1
19-08682	09/01/2019	08/19/2020	2020	353	Solar	Level 1
19-08685	09/01/2019	10/19/2020	2020	414	Solar	Level 1
19-08688	09/01/2019	01/14/2020	2020	135	Solar	Level 1
19-08695	09/02/2019	01/24/2020	2020	144	Solar	Level 1
19-08698	09/02/2019	09/23/2020	2020	387	Solar	Level 1
19-08700	09/02/2019	05/06/2020	2020	247	Solar	Level 1
19-08704	09/03/2019	03/02/2020	2020	181	Solar	Level 1
19-08707	09/03/2019	01/14/2020	2020	133	Solar	Level 1
19-08717	09/03/2019	06/25/2020	2020	296	Solar	Level 2
19-08719	09/03/2019	06/30/2020	2020	301	Solar	Level 2
19-08720	09/03/2019	02/12/2020	2020	162	Solar	Level 1
19-08721	09/03/2019	10/23/2020	2020	416	Solar	Level 1
19-08737	09/03/2019	04/13/2020	2020	223	Solar	Level 1
19-08741	09/03/2019	01/13/2020	2020	132	Solar	Level 1
19-08744	09/03/2019	02/21/2020	2020	171	Solar	Level 1
19-08745	09/03/2019	02/05/2020	2020	155	Solar	Level 1
19-08749	09/03/2019	05/11/2020	2020	251	Solar	Level 1
19-08758	09/03/2019	03/05/2020	2020	184	Solar	Level 1
19-08774	09/03/2019	05/18/2020	2020	258	Solar	Level 1
19-08783	09/04/2019	03/11/2020	2020	189	Solar	Level 1
19-08788	09/04/2019	03/08/2020	2020	186	Solar	Level 1
19-08790	09/04/2019	02/19/2020	2020	168	Solar	Level 1
19-08793	09/04/2019	01/14/2020	2020	132	Solar	Level 1
19-08795	09/04/2019	01/17/2020	2020	135	Solar	Level 1
19-08796	09/04/2019	02/03/2020	2020	152	Solar	Level 1
19-08800	09/04/2019	02/10/2020	2020	159	Solar	Level 1
19-08801	09/04/2019	07/09/2020	2020	309	Solar	Level 1
19-08802	09/04/2019	06/01/2020	2020	271	Solar	Level 1

19-08808	09/04/2019	01/13/2020	2020	131	Solar	Level 1
19-08816	09/04/2019	01/13/2020	2020	131	Solar	Level 1
19-08820	09/04/2019	02/27/2020	2020	176	Solar	Level 1
19-08821	09/04/2019	02/03/2020	2020	152	Solar	Level 1
19-08823	09/04/2019	05/27/2020	2020	266	Solar	Level 1
19-08824	09/04/2019	02/13/2020	2020	162	Solar	Level 1
19-08830	09/04/2019	03/02/2020	2020	180	Solar	Level 1
19-08839	09/04/2019	01/17/2020	2020	135	Solar	Level 1
19-08842	09/04/2019	03/17/2020	2020	195	Solar	Level 1
19-08844	09/04/2019	01/29/2020	2020	147	Solar	Level 1
19-08846	09/04/2019	03/25/2020	2020	203	Solar	Level 1
19-08848	09/04/2019	01/29/2020	2020	147	Solar	Level 1
19-08849	09/04/2019	03/30/2020	2020	208	Solar	Level 1
19-08854	09/04/2019	01/16/2020	2020	134	Solar	Level 1
19-08855	09/04/2019	03/30/2020	2020	208	Solar	Level 1
19-08856	09/04/2019	08/19/2020	2020	350	Solar	Level 1
19-08861	09/04/2019	07/31/2020	2020	331	Solar	Level 1
19-08865	09/04/2019	10/08/2020	2020	400	Solar	Level 1
19-08870	09/04/2019	01/16/2020	2020	134	Solar	Level 1
19-08871	09/04/2019	08/21/2020	2020	352	Solar	Level 1
19-08875	09/04/2019	02/07/2020	2020	156	Solar	Level 1
19-08878	09/04/2019	01/24/2020	2020	142	Solar	Level 1
19-08882	09/04/2019	01/14/2020	2020	132	Solar	Level 1
19-08883	09/04/2019	05/20/2020	2020	259	Solar	Level 1
19-08887	09/04/2019	02/05/2020	2020	154	Solar	Level 1
19-08888	09/04/2019	04/07/2020	2020	216	Solar	Level 1
19-08899	09/05/2019	04/07/2020	2020	215	Solar	Level 1
19-08902	09/05/2019	06/24/2020	2020	293	Solar	Level 1
19-08904	09/05/2019	10/07/2020	2020	398	Solar	Level 1
19-08905	09/05/2019	04/27/2020	2020	235	Solar	Level 1
19-08908	09/05/2019	09/16/2020	2020	377	Solar	Level 1
19-08916	09/05/2019	02/27/2020	2020	175	Solar	Level 1
19-08919	09/05/2019	02/28/2020	2020	176	Solar	Level 1
19-08922	09/05/2019	01/06/2020	2020	123	Solar	Level 1
19-08924	09/05/2019	08/26/2020	2020	356	Solar	Level 1
19-08925	09/05/2019	01/28/2020	2020	145	Solar	Level 1
19-08928	09/05/2019	05/26/2020	2020	264	Solar	Level 1
19-08929	09/05/2019	01/24/2020	2020	141	Solar	Level 1
19-08930	09/05/2019	03/17/2020	2020	194	Solar	Level 1
19-08932	09/05/2019	03/09/2020	2020	186	Solar	Level 1
19-08933	09/05/2019	02/05/2020	2020	153	Solar	Level 1

19-08935	09/05/2019	03/13/2020	2020	190	Solar	Level 1
19-08936	09/05/2019	08/21/2020	2020	351	Solar	Level 1
19-08938	09/05/2019	02/25/2020	2020	173	Solar	Level 1
19-08939	09/05/2019	08/13/2020	2020	343	Solar	Level 1
19-08941	09/05/2019	11/15/2020	2020	437	Solar	Level 1
19-08942	09/05/2019	07/19/2020	2020	318	Solar	Level 1
19-08944	09/05/2019	09/28/2020	2020	389	Solar	Level 1
19-08945	09/05/2019	08/19/2020	2020	349	Solar	Level 1
19-08946	09/05/2019	04/30/2020	2020	238	Solar	Level 1
19-08951	09/06/2019	05/18/2020	2020	255	Solar	Level 1
19-08958	09/06/2019	02/07/2020	2020	154	Solar	Level 1
19-08960	09/06/2019	01/29/2020	2020	145	Solar	Level 1
19-08961	09/06/2019	01/30/2020	2020	146	Solar	Level 1
19-08963	09/06/2019	02/25/2020	2020	172	Solar	Level 1
19-08965	09/06/2019	03/02/2020	2020	178	Solar	Level 1
19-08968	09/06/2019	06/29/2020	2020	297	Solar	Level 1
19-08978	09/06/2019	01/24/2020	2020	140	Solar	Level 1
19-08980	09/06/2019	01/29/2020	2020	145	Solar	Level 1
19-08981	09/06/2019	03/13/2020	2020	189	Solar	Level 1
19-08984	09/06/2019	01/17/2020	2020	133	Solar	Level 1
19-08985	09/06/2019	05/07/2020	2020	244	Solar	Level 1
19-08986	09/06/2019	03/25/2020	2020	201	Solar	Level 1
19-08987	09/06/2019	02/13/2020	2020	160	Solar	Level 1
19-08988	09/06/2019	08/30/2020	2020	359	Solar	Level 1
19-08995	09/06/2019	01/10/2020	2020	126	Solar	Level 1
19-08996	09/06/2019	06/22/2020	2020	290	Solar	Level 1
19-08997	09/06/2019	01/09/2020	2020	125	Solar	Level 1
19-09007	09/06/2019	03/19/2020	2020	195	Solar	Level 1
19-09008	09/06/2019	06/29/2020	2020	297	Solar	Level 1
19-09009	09/06/2019	04/20/2020	2020	227	Solar	Level 1
19-09011	09/06/2019	02/14/2020	2020	161	Solar	Level 1
19-09014	09/08/2019	01/22/2020	2020	136	Solar	Level 1
19-09016	09/08/2019	08/29/2020	2020	356	Solar	Level 1
19-09018	09/08/2019	06/12/2020	2020	278	Solar	Level 1
19-09020	09/08/2019	07/21/2020	2020	317	Solar	Level 1
19-09021	09/08/2019	04/13/2020	2020	218	Solar	Level 1
19-09023	09/08/2019	02/27/2020	2020	172	Solar	Level 1
19-09030	09/09/2019	05/11/2020	2020	245	Solar	Level 1
19-09033	09/09/2019	04/23/2020	2020	227	Solar	Level 1
19-09037	09/09/2019	12/14/2020	2020	462	Solar	Level 1
19-09045	09/09/2019	05/28/2020	2020	262	Solar	Level 1

19-09046	09/09/2019	01/06/2020	2020	119	Solar	Level 1
19-09056	09/09/2019	01/06/2020	2020	119	Solar	Level 1
19-09068	09/09/2019	01/23/2020	2020	136	Solar	Level 1
19-09069	09/09/2019	01/17/2020	2020	130	Solar	Level 1
19-09075	09/09/2019	02/05/2020	2020	149	Solar	Level 1
19-09076	09/09/2019	01/09/2020	2020	122	Solar	Level 1
19-09083	09/09/2019	01/17/2020	2020	130	Solar	Level 1
19-09088	09/09/2019	09/09/2020	2020	366	Solar	Level 1
19-09089	09/09/2019	01/10/2020	2020	123	Solar	Level 1
19-09099	09/09/2019	05/26/2020	2020	260	Solar	Level 1
19-09106	09/09/2019	03/11/2020	2020	184	Solar	Level 1
19-09108	09/09/2019	03/31/2020	2020	204	Solar	Level 1
19-09110	09/09/2019	05/26/2020	2020	260	Solar	Level 1
19-09115	09/09/2019	07/30/2020	2020	325	Solar	Level 1
19-09116	09/09/2019	03/04/2020	2020	177	Solar	Level 1
19-09118	09/10/2019	05/18/2020	2020	251	Solar	Level 1
19-09123	09/10/2019	01/21/2020	2020	133	Solar	Level 1
19-09124	09/10/2019	01/29/2020	2020	141	Solar	Level 1
19-09126	09/10/2019	01/08/2020	2020	120	Solar	Level 1
19-09129	09/10/2019	02/21/2020	2020	164	Solar	Level 1
19-09131	09/10/2019	02/21/2020	2020	164	Solar	Level 1
19-09135	09/10/2019	02/10/2020	2020	153	Solar	Level 1
19-09139	09/10/2019	03/12/2020	2020	184	Solar	Level 1
19-09140	09/10/2019	01/17/2020	2020	129	Solar	Level 1
19-09141	09/10/2019	05/20/2020	2020	253	Solar	Level 1
19-09145	09/10/2019	06/30/2020	2020	294	Solar	Level 1
19-09148	09/10/2019	08/06/2020	2020	331	Solar	Level 1
19-09149	09/10/2019	02/05/2020	2020	148	Solar	Level 1
19-09155	09/10/2019	12/08/2020	2020	455	Solar	Level 1
19-09157	09/10/2019	03/19/2020	2020	191	Solar	Level 1
19-09159	09/10/2019	03/12/2020	2020	184	Solar	Level 1
19-09165	09/10/2019	03/17/2020	2020	189	Solar	Level 1
19-09166	09/10/2019	03/02/2020	2020	174	Solar	Level 1
19-09167	09/10/2019	04/26/2020	2020	229	Solar	Level 4
19-09171	09/10/2019	02/07/2020	2020	150	Solar	Level 1
19-09172	09/10/2019	09/20/2020	2020	376	Solar	Level 1
19-09173	09/10/2019	02/10/2020	2020	153	Solar	Level 1
19-09174	09/10/2019	02/04/2020	2020	147	Solar	Level 1
19-09181	09/10/2019	01/24/2020	2020	136	Solar	Level 1
19-09183	09/10/2019	02/19/2020	2020	162	Solar	Level 1
19-09184	09/10/2019	04/28/2020	2020	231	Solar	Level 1

19-09188	09/11/2019	08/08/2020	2020	332	Solar	Level 1
19-09189	09/11/2019	08/23/2020	2020	347	Solar	Level 1
19-09192	09/11/2019	01/27/2020	2020	138	Solar	Level 1
19-09194	09/11/2019	02/21/2020	2020	163	Solar	Level 1
19-09195	09/11/2019	09/29/2020	2020	384	Solar	Level 1
19-09196	09/11/2019	08/06/2020	2020	330	Solar	Level 1
19-09199	09/11/2019	09/09/2020	2020	364	Solar	Level 1
19-09202	09/11/2019	05/06/2020	2020	238	Solar	Level 1
19-09206	09/11/2019	01/13/2020	2020	124	Solar	Level 1
19-09207	09/11/2019	05/08/2020	2020	240	Solar	Level 1
19-09208	09/11/2019	01/29/2020	2020	140	Solar	Level 1
19-09210	09/11/2019	03/12/2020	2020	183	Solar	Level 1
19-09212	09/11/2019	03/19/2020	2020	190	Solar	Level 1
19-09214	09/11/2019	01/06/2020	2020	117	Solar	Level 1
19-09217	09/11/2019	01/10/2020	2020	121	Solar	Level 1
19-09219	09/11/2019	06/25/2020	2020	288	Solar	Level 1
19-09221	09/11/2019	10/19/2020	2020	404	Solar	Level 1
19-09222	09/11/2019	07/24/2020	2020	317	Solar	Level 1
19-09223	09/11/2019	02/12/2020	2020	154	Solar	Level 1
19-09224	09/11/2019	04/01/2020	2020	203	Solar	Level 1
19-09225	09/11/2019	04/26/2020	2020	228	Solar	Level 1
19-09226	09/11/2019	01/10/2020	2020	121	Solar	Level 1
19-09238	09/11/2019	03/23/2020	2020	194	Solar	Level 1
19-09240	09/11/2019	04/22/2020	2020	224	Solar	Level 1
19-09241	09/11/2019	08/20/2020	2020	344	Solar	Level 1
19-09242	09/11/2019	01/10/2020	2020	121	Solar	Level 1
19-09254	09/11/2019	01/16/2020	2020	127	Solar	Level 1
19-09255	09/11/2019	09/29/2020	2020	384	Solar	Level 1
19-09260	09/11/2019	01/06/2020	2020	117	Solar	Level 1
19-09263	09/11/2019	03/12/2020	2020	183	Solar	Level 1
19-09264	09/11/2019	03/09/2020	2020	180	Solar	Level 1
19-09266	09/11/2019	01/10/2020	2020	121	Solar	Level 1
19-09269	09/11/2019	02/04/2020	2020	146	Solar	Level 1
19-09271	09/11/2019	02/19/2020	2020	161	Solar	Level 1
19-09274	09/11/2019	02/20/2020	2020	162	Solar	Level 1
19-09277	09/11/2019	01/15/2020	2020	126	Solar	Level 1
19-09279	09/11/2019	06/01/2020	2020	264	Solar	Level 1
19-09280	09/11/2019	01/09/2020	2020	120	Solar	Level 1
19-09281	09/11/2019	02/19/2020	2020	161	Solar	Level 1
19-09282	09/11/2019	01/16/2020	2020	127	Solar	Level 1
19-09285	09/12/2019	06/25/2020	2020	287	Solar	Level 2

19-09288	09/12/2019	06/05/2020	2020	267	Solar	Level 1
19-09295	09/12/2019	06/15/2020	2020	277	Solar	Level 1
19-09296	09/12/2019	01/03/2020	2020	113	Solar	Level 1
19-09300	09/12/2019	03/23/2020	2020	193	Solar	Level 1
19-09301	09/12/2019	04/20/2020	2020	221	Solar	Level 1
19-09302	09/12/2019	11/12/2020	2020	427	Solar	Level 1
19-09303	09/12/2019	05/13/2020	2020	244	Solar	Level 1
19-09304	09/12/2019	03/09/2020	2020	179	Solar	Level 1
19-09310	09/12/2019	02/25/2020	2020	166	Solar	Level 1
19-09313	09/12/2019	02/26/2020	2020	167	Solar	Level 1
19-09314	09/12/2019	03/16/2020	2020	186	Solar	Level 1
19-09315	09/12/2019	01/28/2020	2020	138	Solar	Level 1
19-09317	09/12/2019	02/07/2020	2020	148	Solar	Level 1
19-09319	09/12/2019	02/10/2020	2020	151	Solar	Level 1
19-09323	09/12/2019	02/10/2020	2020	151	Solar	Level 1
19-09327	09/12/2019	06/29/2020	2020	291	Solar	Level 1
19-09328	09/12/2019	01/17/2020	2020	127	Solar	Level 1
19-09330	09/12/2019	05/06/2020	2020	237	Solar	Level 1
19-09331	09/12/2019	02/28/2020	2020	169	Solar	Level 1
19-09334	09/12/2019	02/07/2020	2020	148	Solar	Level 1
19-09336	09/12/2019	03/17/2020	2020	187	Solar	Level 4
19-09338	09/12/2019	06/03/2020	2020	265	Solar	Level 1
19-09342	09/12/2019	05/15/2020	2020	246	Solar	Level 1
19-09348	09/12/2019	01/30/2020	2020	140	Solar	Level 1
19-09350	09/12/2019	03/17/2020	2020	187	Solar	Level 1
19-09352	09/12/2019	05/26/2020	2020	257	Solar	Level 1
19-09357	09/13/2019	01/07/2020	2020	116	Solar	Level 1
19-09363	09/13/2019	06/01/2020	2020	262	Solar	Level 1
19-09365	09/13/2019	06/17/2020	2020	278	Solar	Level 1
19-09368	09/13/2019	02/21/2020	2020	161	Solar	Level 1
19-09369	09/13/2019	02/11/2020	2020	151	Solar	Level 1
19-09370	09/13/2019	01/29/2020	2020	138	Solar	Level 1
19-09371	09/13/2019	02/03/2020	2020	143	Solar	Level 1
19-09373	09/13/2019	03/26/2020	2020	195	Solar	Level 1
19-09377	09/13/2019	03/12/2020	2020	181	Solar	Level 1
19-09383	09/13/2019	06/29/2020	2020	290	Solar	Level 1
19-09387	09/14/2019	03/27/2020	2020	195	Solar	Level 1
19-09388	09/14/2019	03/17/2020	2020	185	Solar	Level 1
19-09391	09/14/2019	08/17/2020	2020	338	Solar	Level 4
19-09394	09/14/2019	02/05/2020	2020	144	Solar	Level 1
19-09398	09/15/2019	11/25/2020	2020	437	Solar	Level 1

19-09400	09/15/2019	01/03/2020	2020	110	Solar	Level 1
19-09402	09/16/2019	03/11/2020	2020	177	Solar	Level 1
19-09406	09/16/2019	09/08/2020	2020	358	Solar	Level 1
19-09408	09/16/2019	02/07/2020	2020	144	Solar	Level 1
19-09410	09/16/2019	02/04/2020	2020	141	Solar	Level 1
19-09413	09/16/2019	07/07/2020	2020	295	Solar	Level 1
19-09415	09/16/2019	01/31/2020	2020	137	Solar	Level 1
19-09416	09/16/2019	03/17/2020	2020	183	Solar	Level 1
19-09419	09/16/2019	02/21/2020	2020	158	Solar	Level 1
19-09420	09/16/2019	01/22/2020	2020	128	Solar	Level 1
19-09423	09/16/2019	06/03/2020	2020	261	Solar	Level 1
19-09424	09/16/2019	03/18/2020	2020	184	Solar	Level 1
19-09425	09/16/2019	04/21/2020	2020	218	Solar	Level 1
19-09426	09/16/2019	04/07/2020	2020	204	Solar	Level 1
19-09428	09/16/2019	01/22/2020	2020	128	Solar	Level 1
19-09429	09/16/2019	02/28/2020	2020	165	Solar	Level 1
19-09431	09/16/2019	01/30/2020	2020	136	Solar	Level 1
19-09432	09/16/2019	01/14/2020	2020	120	Solar	Level 1
19-09433	09/16/2019	03/18/2020	2020	184	Solar	Level 1
19-09434	09/16/2019	08/11/2020	2020	330	Solar	Level 1
19-09437	09/16/2019	01/10/2020	2020	116	Solar	Level 1
19-09438	09/16/2019	01/24/2020	2020	130	Solar	Level 1
19-09439	09/16/2019	02/07/2020	2020	144	Solar	Level 1
19-09443	09/16/2019	08/21/2020	2020	340	Solar	Level 1
19-09446	09/16/2019	10/09/2020	2020	389	Solar	Level 1
19-09449	09/16/2019	01/12/2020	2020	118	Solar	Level 1
19-09450	09/16/2019	01/17/2020	2020	123	Solar	Level 1
19-09452	09/16/2019	02/06/2020	2020	143	Solar	Level 1
19-09454	09/16/2019	06/03/2020	2020	261	Solar	Level 1
19-09460	09/16/2019	03/17/2020	2020	183	Solar	Level 1
19-09461	09/16/2019	02/28/2020	2020	165	Solar	Level 1
19-09468	09/17/2019	02/25/2020	2020	161	Solar	Level 1
19-09471	09/17/2019	09/11/2020	2020	360	Solar	Level 1
19-09472	09/17/2019	02/25/2020	2020	161	Solar	Level 1
19-09478	09/17/2019	06/02/2020	2020	259	Solar	Level 1
19-09479	09/17/2019	06/24/2020	2020	281	Solar	Level 1
19-09487	09/17/2019	03/03/2020	2020	168	Solar	Level 1
19-09488	09/17/2019	01/24/2020	2020	129	Solar	Level 1
19-09489	09/17/2019	02/04/2020	2020	140	Solar	Level 1
19-09491	09/17/2019	01/29/2020	2020	134	Solar	Level 1
19-09494	09/17/2019	10/01/2020	2020	380	Solar	Level 1

19-09495	09/17/2019	01/05/2020	2020	110	Solar	Level 1
19-09496	09/17/2019	01/24/2020	2020	129	Solar	Level 1
19-09500	09/17/2019	01/24/2020	2020	129	Solar	Level 1
19-09501	09/17/2019	01/09/2020	2020	114	Solar	Level 1
19-09506	09/17/2019	01/09/2020	2020	114	Solar	Level 1
19-09507	09/17/2019	03/12/2020	2020	177	Solar	Level 1
19-09508	09/17/2019	06/03/2020	2020	260	Solar	Level 1
19-09513	09/17/2019	08/21/2020	2020	339	Solar	Level 1
19-09522	09/17/2019	03/09/2020	2020	174	Solar	Level 1
19-09523	09/17/2019	10/21/2020	2020	400	Solar	Level 1
19-09524	09/17/2019	07/27/2020	2020	314	Solar	Level 1
19-09526	09/18/2019	06/29/2020	2020	285	Solar	Level 1
19-09527	09/18/2019	03/30/2020	2020	194	Solar	Level 1
19-09528	09/18/2019	01/06/2020	2020	110	Solar	Level 1
19-09531	09/18/2019	03/13/2020	2020	177	Solar	Level 1
19-09533	09/18/2019	02/27/2020	2020	162	Solar	Level 1
19-09535	09/18/2019	06/15/2020	2020	271	Solar	Level 1
19-09536	09/18/2019	01/14/2020	2020	118	Solar	Level 1
19-09544	09/18/2019	03/12/2020	2020	176	Solar	Level 1
19-09548	09/18/2019	01/06/2020	2020	110	Solar	Level 1
19-09549	09/18/2019	02/06/2020	2020	141	Solar	Level 1
19-09551	09/18/2019	05/19/2020	2020	244	Solar	Level 1
19-09552	09/18/2019	11/04/2020	2020	413	Solar	Level 1
19-09557	09/18/2019	02/17/2020	2020	152	Solar	Level 1
19-09560	09/18/2019	03/05/2020	2020	169	Solar	Level 1
19-09571	09/18/2019	03/26/2020	2020	190	Solar	Level 1
19-09572	09/18/2019	01/28/2020	2020	132	Solar	Level 1
19-09573	09/18/2019	01/13/2020	2020	117	Solar	Level 1
19-09574	09/18/2019	02/13/2020	2020	148	Solar	Level 1
19-09575	09/18/2019	03/17/2020	2020	181	Solar	Level 1
19-09576	09/18/2019	03/19/2020	2020	183	Solar	Level 1
19-09578	09/18/2019	06/18/2020	2020	274	Solar	Level 1
19-09579	09/18/2019	02/03/2020	2020	138	Solar	Level 1
19-09580	09/18/2019	01/24/2020	2020	128	Solar	Level 1
19-09582	09/18/2019	03/02/2020	2020	166	Solar	Level 1
19-09585	09/18/2019	01/13/2020	2020	117	Solar	Level 1
19-09586	09/18/2019	08/14/2020	2020	331	Solar	Level 1
19-09588	09/18/2019	02/13/2020	2020	148	Solar	Level 1
19-09589	09/18/2019	09/10/2020	2020	358	Solar	Level 1
19-09592	09/18/2019	01/17/2020	2020	121	Solar	Level 1
19-09593	09/18/2019	07/17/2020	2020	303	Solar	Level 4

19-09595	09/18/2019	06/19/2020	2020	275	Solar	Level 1
19-09597	09/18/2019	03/05/2020	2020	169	Solar	Level 1
19-09598	09/18/2019	02/04/2020	2020	139	Solar	Level 4
19-09600	09/18/2019	09/09/2020	2020	357	Solar	Level 1
19-09601	09/19/2019	02/06/2020	2020	140	Solar	Level 1
19-09602	09/19/2019	02/11/2020	2020	145	Solar	Level 1
19-09604	09/19/2019	03/06/2020	2020	169	Solar	Level 1
19-09605	09/19/2019	04/13/2020	2020	207	Solar	Level 1
19-09606	09/19/2019	10/06/2020	2020	383	Solar	Level 1
19-09607	09/19/2019	01/15/2020	2020	118	Solar	Level 1
19-09609	09/19/2019	03/20/2020	2020	183	Solar	Level 1
19-09610	09/19/2019	04/20/2020	2020	214	Solar	Level 1
19-09611	09/19/2019	03/12/2020	2020	175	Solar	Level 1
19-09612	09/19/2019	09/06/2020	2020	353	Solar	Level 1
19-09614	09/19/2019	02/26/2020	2020	160	Solar	Level 1
19-09616	09/19/2019	01/14/2020	2020	117	Solar	Level 1
19-09619	09/19/2019	03/17/2020	2020	180	Solar	Level 1
19-09629	09/19/2019	02/13/2020	2020	147	Solar	Level 1
19-09631	09/19/2019	12/01/2020	2020	439	Solar	Level 1
19-09633	09/19/2019	03/24/2020	2020	187	Solar	Level 1
19-09641	09/19/2019	01/03/2020	2020	106	Solar	Level 1
19-09642	09/19/2019	01/28/2020	2020	131	Solar	Level 1
19-09643	09/19/2019	06/18/2020	2020	273	Solar	Level 1
19-09646	09/19/2019	04/21/2020	2020	215	Solar	Level 1
19-09649	09/19/2019	06/03/2020	2020	258	Solar	Level 1
19-09652	09/19/2019	03/06/2020	2020	169	Solar	Level 1
19-09658	09/19/2019	02/17/2020	2020	151	Solar	Level 1
19-09662	09/19/2019	03/02/2020	2020	165	Solar	Level 1
19-09663	09/19/2019	09/18/2020	2020	365	Solar	Level 1
19-09664	09/19/2019	07/20/2020	2020	305	Solar	Level 1
19-09665	09/19/2019	02/24/2020	2020	158	Solar	Level 1
19-09666	09/19/2019	01/16/2020	2020	119	Solar	Level 1
19-09667	09/19/2019	01/06/2020	2020	109	Solar	Level 1
19-09673	09/20/2019	11/03/2020	2020	410	Solar	Level 1
19-09674	09/20/2019	08/20/2020	2020	335	Solar	Level 1
19-09675	09/20/2019	08/20/2020	2020	335	Solar	Level 1
19-09676	09/20/2019	04/27/2020	2020	220	Solar	Level 1
19-09677	09/20/2019	04/01/2020	2020	194	Solar	Level 1
19-09679	09/20/2019	03/20/2020	2020	182	Solar	Level 1
19-09682	09/20/2019	01/02/2020	2020	104	Solar	Level 1
19-09683	09/20/2019	06/12/2020	2020	266	Solar	Level 1

19-09686	09/20/2019	02/21/2020	2020	154	Solar	Level 1
19-09687	09/20/2019	05/26/2020	2020	249	Solar	Level 1
19-09688	09/20/2019	01/06/2020	2020	108	Solar	Level 1
19-09693	09/20/2019	02/06/2020	2020	139	Solar	Level 1
19-09696	09/20/2019	01/17/2020	2020	119	Solar	Level 1
19-09700	09/20/2019	02/19/2020	2020	152	Solar	Level 1
19-09701	09/20/2019	03/02/2020	2020	164	Solar	Level 1
19-09702	09/20/2019	01/24/2020	2020	126	Solar	Level 1
19-09703	09/20/2019	01/10/2020	2020	112	Solar	Level 1
19-09705	09/20/2019	01/31/2020	2020	133	Solar	Level 1
19-09706	09/20/2019	10/25/2020	2020	401	Solar	Level 1
19-09707	09/20/2019	01/16/2020	2020	118	Solar	Level 1
19-09709	09/20/2019	05/18/2020	2020	241	Solar	Level 1
19-09711	09/20/2019	03/11/2020	2020	173	Solar	Level 1
19-09712	09/20/2019	03/26/2020	2020	188	Solar	Level 1
19-09713	09/20/2019	03/04/2020	2020	166	Solar	Level 1
19-09715	09/20/2019	01/14/2020	2020	116	Solar	Level 1
19-09717	09/20/2019	03/03/2020	2020	165	Solar	Level 1
19-09720	09/20/2019	03/31/2020	2020	193	Solar	Level 1
19-09721	09/20/2019	03/23/2020	2020	185	Solar	Level 1
19-09722	09/20/2019	03/09/2020	2020	171	Solar	Level 1
19-09723	09/20/2019	01/10/2020	2020	112	Solar	Level 1
19-09724	09/20/2019	02/28/2020	2020	161	Solar	Level 1
19-09725	09/20/2019	01/14/2020	2020	116	Solar	Level 1
19-09730	09/21/2019	03/31/2020	2020	192	Solar	Level 1
19-09731	09/21/2019	03/17/2020	2020	178	Solar	Level 1
19-09734	09/21/2019	06/29/2020	2020	282	Solar	Level 1
19-09736	09/21/2019	02/13/2020	2020	145	Solar	Level 1
19-09738	09/21/2019	07/31/2020	2020	314	Solar	Level 1
19-09741	09/21/2019	02/25/2020	2020	157	Solar	Level 1
19-09742	09/21/2019	02/19/2020	2020	151	Solar	Level 1
19-09743	09/21/2019	08/08/2020	2020	322	Solar	Level 1
19-09744	09/21/2019	06/03/2020	2020	256	Solar	Level 1
19-09747	09/23/2019	03/31/2020	2020	190	Solar	Level 1
19-09749	09/23/2019	09/08/2020	2020	351	Solar	Level 1
19-09750	09/23/2019	03/09/2020	2020	168	Solar	Level 1
19-09751	09/23/2019	05/18/2020	2020	238	Solar	Level 1
19-09752	09/23/2019	02/25/2020	2020	155	Solar	Level 1
19-09754	09/23/2019	02/07/2020	2020	137	Solar	Level 1
19-09757	09/23/2019	03/20/2020	2020	179	Solar	Level 1
19-09758	09/23/2019	05/06/2020	2020	226	Solar	Level 1

19-09759	09/23/2019	02/06/2020	2020	136	Solar	Level 1
19-09760	09/23/2019	04/28/2020	2020	218	Solar	Level 1
19-09761	09/23/2019	02/24/2020	2020	154	Solar	Level 1
19-09762	09/23/2019	01/29/2020	2020	128	Solar	Level 1
19-09763	09/23/2019	01/24/2020	2020	123	Solar	Level 1
19-09764	09/23/2019	02/04/2020	2020	134	Solar	Level 1
19-09767	09/23/2019	01/23/2020	2020	122	Solar	Level 1
19-09768	09/23/2019	02/25/2020	2020	155	Solar	Level 1
19-09769	09/23/2019	03/16/2020	2020	175	Solar	Level 1
19-09770	09/23/2019	03/19/2020	2020	178	Solar	Level 1
19-09775	09/23/2019	07/27/2020	2020	308	Solar	Level 1
19-09781	09/23/2019	03/10/2020	2020	169	Solar	Level 2
19-09785	09/23/2019	01/24/2020	2020	123	Solar	Level 1
19-09789	09/23/2019	05/11/2020	2020	231	Solar	Level 1
19-09790	09/23/2019	06/29/2020	2020	280	Solar	Level 1
19-09793	09/23/2019	01/06/2020	2020	105	Solar	Level 1
19-09801	09/23/2019	02/10/2020	2020	140	Solar	Level 1
19-09804	09/23/2019	02/06/2020	2020	136	Solar	Level 1
19-09805	09/23/2019	03/04/2020	2020	163	Solar	Level 4
19-09812	09/23/2019	03/03/2020	2020	162	Solar	Level 1
19-09814	09/23/2019	03/02/2020	2020	161	Solar	Level 1
19-09815	09/23/2019	06/29/2020	2020	280	Solar	Level 1
19-09816	09/23/2019	05/18/2020	2020	238	Solar	Level 1
19-09817	09/23/2019	03/23/2020	2020	182	Solar	Level 1
19-09818	09/23/2019	02/13/2020	2020	143	Solar	Level 1
19-09821	09/23/2019	02/28/2020	2020	158	Solar	Level 1
19-09822	09/24/2019	01/16/2020	2020	114	Solar	Level 1
19-09823	09/24/2019	02/13/2020	2020	142	Solar	Level 1
19-09824	09/24/2019	02/27/2020	2020	156	Solar	Level 1
19-09826	09/24/2019	07/17/2020	2020	297	Solar	Level 1
19-09829	09/24/2019	01/14/2020	2020	112	Solar	Level 1
19-09833	09/24/2019	07/31/2020	2020	311	Solar	Level 1
19-09836	09/24/2019	09/24/2020	2020	366	Solar	Level 1
19-09839	09/24/2019	06/15/2020	2020	265	Solar	Level 1
19-09841	09/24/2019	01/07/2020	2020	105	Solar	Level 1
19-09842	09/24/2019	03/06/2020	2020	164	Solar	Level 1
19-09848	09/24/2019	02/11/2020	2020	140	Solar	Level 1
19-09849	09/24/2019	05/18/2020	2020	237	Solar	Level 1
19-09850	09/24/2019	11/25/2020	2020	428	Solar	Level 1
19-09853	09/24/2019	08/21/2020	2020	332	Solar	Level 1
19-09860	09/24/2019	05/11/2020	2020	230	Solar	Level 1

19-09862	09/24/2019	04/03/2020	2020	192	Solar	Level 1
19-09863	09/24/2019	02/19/2020	2020	148	Solar	Level 1
19-09866	09/24/2019	03/06/2020	2020	164	Solar	Level 1
19-09868	09/24/2019	08/18/2020	2020	329	Solar	Level 1
19-09869	09/24/2019	10/23/2020	2020	395	Solar	Level 1
19-09870	09/24/2019	05/12/2020	2020	231	Solar	Level 1
19-09874	09/25/2019	10/12/2020	2020	383	Solar	Level 1
19-09876	09/25/2019	11/07/2020	2020	409	Solar	Level 1
19-09878	09/25/2019	03/17/2020	2020	174	Solar	Level 1
19-09883	09/25/2019	03/02/2020	2020	159	Solar	Level 1
19-09884	09/25/2019	03/19/2020	2020	176	Solar	Level 1
19-09885	09/25/2019	01/28/2020	2020	125	Solar	Level 1
19-09886	09/25/2019	10/25/2020	2020	396	Solar	Level 1
19-09894	09/25/2019	12/02/2020	2020	434	Solar	Level 1
19-09898	09/25/2019	05/29/2020	2020	247	Solar	Level 1
19-09902	09/25/2019	01/10/2020	2020	107	Solar	Level 1
19-09903	09/25/2019	07/17/2020	2020	296	Solar	Level 1
19-09904	09/25/2019	01/09/2020	2020	106	Solar	Level 1
19-09907	09/25/2019	02/19/2020	2020	147	Solar	Level 1
19-09910	09/25/2019	02/26/2020	2020	154	Solar	Level 1
19-09913	09/25/2019	03/11/2020	2020	168	Solar	Level 1
19-09915	09/25/2019	01/03/2020	2020	100	Solar	Level 1
19-09916	09/25/2019	01/29/2020	2020	126	Solar	Level 1
19-09917	09/25/2019	01/29/2020	2020	126	Solar	Level 1
19-09925	09/26/2019	03/11/2020	2020	167	Solar	Level 1
19-09927	09/26/2019	10/12/2020	2020	382	Solar	Level 1
19-09931	09/26/2019	04/24/2020	2020	211	Solar	Level 1
19-09932	09/26/2019	03/03/2020	2020	159	Solar	Level 1
19-09934	09/26/2019	11/12/2020	2020	413	Solar	Level 1
19-09938	09/26/2019	07/21/2020	2020	299	Solar	Level 1
19-09944	09/26/2019	06/24/2020	2020	272	Solar	Level 1
19-09946	09/26/2019	01/07/2020	2020	103	Solar	Level 1
19-09949	09/26/2019	03/17/2020	2020	173	Solar	Level 1
19-09951	09/26/2019	02/07/2020	2020	134	Solar	Level 1
19-09954	09/26/2019	03/24/2020	2020	180	Solar	Level 1
19-09969	09/26/2019	01/27/2020	2020	123	Solar	Level 1
19-09972	09/26/2019	04/07/2020	2020	194	Solar	Level 1
19-09973	09/27/2019	02/11/2020	2020	137	Solar	Level 1
19-09975	09/27/2019	01/27/2020	2020	122	Solar	Level 1
19-09978	09/27/2019	01/24/2020	2020	119	Solar	Level 1
19-09980	09/27/2019	04/28/2020	2020	214	Solar	Level 1

19-09981	09/27/2019	05/20/2020	2020	236	Solar	Level 1
19-09982	09/27/2019	01/31/2020	2020	126	Solar	Level 1
19-09985	09/27/2019	05/18/2020	2020	234	Solar	Level 1
19-09997	09/27/2019	03/17/2020	2020	172	Solar	Level 1
19-09998	09/27/2019	04/20/2020	2020	206	Solar	Level 1
19-09999	09/27/2019	02/07/2020	2020	133	Solar	Level 1
19-10000	09/27/2019	05/06/2020	2020	222	Solar	Level 1
19-10001	09/27/2019	08/26/2020	2020	334	Solar	Level 1
19-10003	09/27/2019	02/05/2020	2020	131	Solar	Level 1
19-10008	09/27/2019	04/28/2020	2020	214	Solar	Level 1
19-10009	09/27/2019	03/12/2020	2020	167	Solar	Level 4
19-10011	09/27/2019	03/18/2020	2020	173	Solar	Level 1
19-10013	09/27/2019	03/20/2020	2020	175	Solar	Level 1
19-10015	09/27/2019	08/20/2020	2020	328	Solar	Level 1
19-10017	09/27/2019	01/24/2020	2020	119	Solar	Level 1
19-10020	09/27/2019	04/07/2020	2020	193	Solar	Level 1
19-10023	09/27/2019	01/14/2020	2020	109	Solar	Level 1
19-10024	09/27/2019	03/17/2020	2020	172	Solar	Level 1
19-10027	09/27/2019	04/28/2020	2020	214	Solar	Level 1
19-10028	09/27/2019	07/07/2020	2020	284	Solar	Level 1
19-10030	09/27/2019	03/17/2020	2020	172	Solar	Level 1
19-10032	09/27/2019	07/17/2020	2020	294	Solar	Level 1
19-10036	09/27/2019	02/28/2020	2020	154	Solar	Level 1
19-10040	09/27/2019	03/11/2020	2020	166	Solar	Level 4
19-10041	09/27/2019	06/12/2020	2020	259	Solar	Level 1
19-10050	09/28/2019	01/27/2020	2020	121	Solar	Level 1
19-10052	09/28/2019	01/29/2020	2020	123	Solar	Level 1
19-10053	09/29/2019	02/05/2020	2020	129	Solar	Level 1
19-10055	09/30/2019	03/24/2020	2020	176	Solar	Level 1
19-10062	09/30/2019	06/18/2020	2020	262	Solar	Level 1
19-10063	09/30/2019	02/12/2020	2020	135	Solar	Level 1
19-10064	09/30/2019	11/24/2020	2020	421	Solar	Level 1
19-10067	09/30/2019	01/23/2020	2020	115	Solar	Level 1
19-10068	09/30/2019	01/10/2020	2020	102	Solar	Level 1
19-10070	09/30/2019	07/09/2020	2020	283	Solar	Level 1
19-10074	09/30/2019	03/09/2020	2020	161	Solar	Level 1
19-10075	09/30/2019	04/28/2020	2020	211	Solar	Level 1
19-10076	09/30/2019	08/21/2020	2020	326	Solar	Level 1
19-10079	09/30/2019	01/03/2020	2020	95	Solar	Level 1
19-10082	09/30/2019	08/08/2020	2020	313	Solar	Level 1
19-10083	09/30/2019	02/24/2020	2020	147	Solar	Level 1

19-10085	09/30/2019	01/27/2020	2020	119	Solar	Level 1
19-10089	09/30/2019	01/28/2020	2020	120	Solar	Level 1
19-10092	09/30/2019	01/28/2020	2020	120	Solar	Level 1
19-10095	09/30/2019	01/07/2020	2020	99	Solar	Level 1
19-10096	09/30/2019	03/13/2020	2020	165	Solar	Level 1
19-10097	09/30/2019	08/04/2020	2020	309	Solar	Level 1
19-10098	09/30/2019	08/23/2020	2020	328	Solar	Level 2
19-10100	09/30/2019	03/02/2020	2020	154	Solar	Level 1
19-10101	09/30/2019	01/24/2020	2020	116	Solar	Level 1
19-10106	09/30/2019	04/13/2020	2020	196	Solar	Level 1
19-10107	09/30/2019	06/24/2020	2020	268	Solar	Level 1
19-10108	09/30/2019	02/19/2020	2020	142	Solar	Level 1
19-10110	09/30/2019	04/07/2020	2020	190	Solar	Level 1
19-10114	09/30/2019	05/19/2020	2020	232	Solar	Level 1
19-10117	09/30/2019	08/30/2020	2020	335	Solar	Level 1
19-10118	09/30/2019	04/02/2020	2020	185	Solar	Level 1
19-10121	09/30/2019	03/17/2020	2020	169	Solar	Level 1
19-10128	09/30/2019	01/07/2020	2020	99	Solar	Level 1
19-10130	09/30/2019	06/30/2020	2020	274	Solar	Level 1
19-10131	09/30/2019	02/19/2020	2020	142	Solar	Level 1
19-10133	09/30/2019	05/27/2020	2020	240	Solar	Level 1
19-10135	09/30/2019	03/17/2020	2020	169	Solar	Level 1
19-10139	10/01/2019	01/31/2020	2020	122	Solar	Level 1
19-10141	10/01/2019	05/04/2020	2020	216	Solar	Level 1
19-10143	10/01/2019	02/19/2020	2020	141	Solar	Level 1
19-10145	10/01/2019	03/10/2020	2020	161	Solar	Level 2
19-10147	10/01/2019	03/06/2020	2020	157	Solar	Level 1
19-10149	10/01/2019	01/10/2020	2020	101	Solar	Level 1
19-10156	10/01/2019	02/14/2020	2020	136	Solar	Level 1
19-10158	10/01/2019	02/13/2020	2020	135	Solar	Level 1
19-10160	10/01/2019	05/11/2020	2020	223	Solar	Level 1
19-10161	10/01/2019	08/10/2020	2020	314	Solar	Level 1
19-10163	10/01/2019	08/12/2020	2020	316	Solar	Level 1
19-10164	10/01/2019	01/17/2020	2020	108	Solar	Level 1
19-10165	10/01/2019	01/07/2020	2020	98	Solar	Level 1
19-10167	10/01/2019	02/06/2020	2020	128	Solar	Level 1
19-10169	10/01/2019	07/09/2020	2020	282	Solar	Level 1
19-10171	10/01/2019	02/26/2020	2020	148	Solar	Level 1
19-10173	10/01/2019	04/24/2020	2020	206	Solar	Level 1
19-10174	10/01/2019	05/19/2020	2020	231	Solar	Level 1
19-10175	10/01/2019	03/03/2020	2020	154	Solar	Level 1

19-10176	10/01/2019	03/03/2020	2020	154	Solar	Level 1
19-10179	10/01/2019	04/05/2020	2020	187	Solar	Level 1
19-10181	10/01/2019	10/12/2020	2020	377	Solar	Level 1
19-10182	10/01/2019	01/14/2020	2020	105	Solar	Level 1
19-10184	10/01/2019	09/15/2020	2020	350	Solar	Level 1
19-10185	10/01/2019	03/11/2020	2020	162	Solar	Level 1
19-10186	10/01/2019	03/04/2020	2020	155	Solar	Level 1
19-10188	10/01/2019	05/05/2020	2020	217	Solar	Level 1
19-10189	10/01/2019	09/02/2020	2020	337	Solar	Level 4
19-10190	10/01/2019	03/17/2020	2020	168	Solar	Level 1
19-10191	10/01/2019	08/21/2020	2020	325	Solar	Level 1
19-10193	10/01/2019	03/30/2020	2020	181	Solar	Level 1
19-10194	10/01/2019	05/06/2020	2020	218	Solar	Level 1
19-10197	10/01/2019	03/17/2020	2020	168	Solar	Level 1
19-10198	10/01/2019	02/07/2020	2020	129	Solar	Level 1
19-10200	10/01/2019	03/17/2020	2020	168	Solar	Level 1
19-10202	10/01/2019	03/17/2020	2020	168	Solar	Level 1
19-10203	10/01/2019	02/13/2020	2020	135	Solar	Level 1
19-10204	10/01/2019	02/19/2020	2020	141	Solar	Level 1
19-10206	10/01/2019	02/14/2020	2020	136	Solar	Level 1
19-10207	10/01/2019	01/17/2020	2020	108	Solar	Level 1
19-10208	10/01/2019	08/21/2020	2020	325	Solar	Level 1
19-10212	10/01/2019	01/06/2020	2020	97	Solar	Level 1
19-10214	10/01/2019	10/06/2020	2020	371	Solar	Level 1
19-10215	10/01/2019	08/19/2020	2020	323	Solar	Level 1
19-10221	10/01/2019	05/26/2020	2020	238	Solar	Level 1
19-10222	10/01/2019	04/07/2020	2020	189	Solar	Level 1
19-10223	10/01/2019	02/13/2020	2020	135	Solar	Level 1
19-10224	10/01/2019	01/13/2020	2020	104	Solar	Level 1
19-10225	10/01/2019	02/13/2020	2020	135	Solar	Level 1
19-10226	10/01/2019	01/27/2020	2020	118	Solar	Level 1
19-10227	10/01/2019	01/07/2020	2020	98	Solar	Level 1
19-10230	10/01/2019	05/19/2020	2020	231	Solar	Level 1
19-10232	10/01/2019	04/10/2020	2020	192	Solar	Level 1
19-10233	10/01/2019	02/19/2020	2020	141	Solar	Level 1
19-10234	10/01/2019	08/20/2020	2020	324	Solar	Level 1
19-10237	10/01/2019	04/21/2020	2020	203	Solar	Level 1
19-10238	10/01/2019	05/26/2020	2020	238	Solar	Level 1
19-10239	10/01/2019	02/20/2020	2020	142	Solar	Level 1
19-10240	10/01/2019	01/29/2020	2020	120	Solar	Level 1
19-10243	10/01/2019	02/20/2020	2020	142	Solar	Level 1

19-10244	10/01/2019	03/17/2020	2020	168	Solar	Level 1
19-10245	10/01/2019	02/04/2020	2020	126	Solar	Level 1
19-10247	10/01/2019	03/09/2020	2020	160	Solar	Level 1
19-10248	10/01/2019	06/29/2020	2020	272	Solar	Level 1
19-10249	10/01/2019	01/12/2020	2020	103	Solar	Level 1
19-10253	10/01/2019	07/27/2020	2020	300	Solar	Level 1
19-10256	10/01/2019	02/11/2020	2020	133	Solar	Level 1
19-10257	10/01/2019	04/07/2020	2020	189	Solar	Level 1
19-10258	10/01/2019	08/19/2020	2020	323	Solar	Level 1
19-10260	10/01/2019	08/14/2020	2020	318	Solar	Level 1
19-10261	10/01/2019	02/19/2020	2020	141	Solar	Level 1
19-10262	10/01/2019	01/17/2020	2020	108	Solar	Level 1
19-10263	10/01/2019	03/19/2020	2020	170	Solar	Level 1
19-10266	10/02/2019	08/19/2020	2020	322	Solar	Level 1
19-10268	10/02/2019	07/07/2020	2020	279	Solar	Level 1
19-10270	10/02/2019	02/14/2020	2020	135	Solar	Level 1
19-10272	10/02/2019	09/09/2020	2020	343	Solar	Level 1
19-10273	10/02/2019	06/12/2020	2020	254	Solar	Level 1
19-10274	10/02/2019	08/14/2020	2020	317	Solar	Level 1
19-10277	10/02/2019	04/21/2020	2020	202	Solar	Level 1
19-10279	10/02/2019	01/16/2020	2020	106	Solar	Level 1
19-10280	10/02/2019	01/30/2020	2020	120	Solar	Level 1
19-10281	10/02/2019	01/07/2020	2020	97	Solar	Level 1
19-10283	10/02/2019	04/01/2020	2020	182	Solar	Level 2
19-10286	10/02/2019	03/18/2020	2020	168	Solar	Level 1
19-10289	10/02/2019	01/02/2020	2020	92	Solar	Level 1
19-10290	10/02/2019	01/10/2020	2020	100	Solar	Level 1
19-10292	10/02/2019	01/29/2020	2020	119	Solar	Level 1
19-10299	10/02/2019	01/28/2020	2020	118	Solar	Level 1
19-10300	10/02/2019	01/09/2020	2020	99	Solar	Level 1
19-10301	10/02/2019	05/11/2020	2020	222	Solar	Level 1
19-10302	10/02/2019	02/13/2020	2020	134	Solar	Level 1
19-10303	10/02/2019	04/21/2020	2020	202	Solar	Level 1
19-10304	10/02/2019	02/07/2020	2020	128	Solar	Level 1
19-10305	10/02/2019	09/29/2020	2020	363	Solar	Level 1
19-10309	10/02/2019	10/14/2020	2020	378	Solar	Level 1
19-10312	10/02/2019	03/03/2020	2020	153	Solar	Level 1
19-10313	10/02/2019	02/11/2020	2020	132	Solar	Level 1
19-10314	10/02/2019	01/10/2020	2020	100	Solar	Level 1
19-10318	10/02/2019	03/09/2020	2020	159	Solar	Level 1
19-10319	10/02/2019	05/18/2020	2020	229	Solar	Level 1

19-10324	10/02/2019	03/06/2020	2020	156	Solar	Level 1
19-10329	10/02/2019	02/06/2020	2020	127	Solar	Level 1
19-10330	10/02/2019	01/02/2020	2020	92	Solar	Level 1
19-10331	10/02/2019	01/24/2020	2020	114	Solar	Level 1
19-10332	10/03/2019	02/19/2020	2020	139	Solar	Level 1
19-10342	10/03/2019	04/13/2020	2020	193	Solar	Level 1
19-10346	10/03/2019	04/27/2020	2020	207	Solar	Level 1
19-10347	10/03/2019	01/10/2020	2020	99	Solar	Level 1
19-10348	10/03/2019	02/04/2020	2020	124	Solar	Level 1
19-10351	10/03/2019	01/09/2020	2020	98	Solar	Level 2
19-10352	10/03/2019	03/17/2020	2020	166	Solar	Level 1
19-10354	10/03/2019	01/16/2020	2020	105	Solar	Level 1
19-10357	10/03/2019	11/04/2020	2020	398	Solar	Level 1
19-10358	10/03/2019	04/20/2020	2020	200	Solar	Level 1
19-10359	10/03/2019	01/29/2020	2020	118	Solar	Level 1
19-10361	10/03/2019	04/30/2020	2020	210	Solar	Level 4
19-10362	10/03/2019	06/12/2020	2020	253	Solar	Level 1
19-10369	10/03/2019	01/23/2020	2020	112	Solar	Level 1
19-10370	10/03/2019	01/09/2020	2020	98	Solar	Level 1
19-10374	10/03/2019	04/22/2020	2020	202	Solar	Level 1
19-10379	10/03/2019	04/27/2020	2020	207	Solar	Level 1
19-10383	10/03/2019	02/25/2020	2020	145	Solar	Level 1
19-10385	10/03/2019	03/31/2020	2020	180	Solar	Level 1
19-10388	10/03/2019	01/29/2020	2020	118	Solar	Level 1
19-10389	10/03/2019	02/10/2020	2020	130	Solar	Level 1
19-10390	10/03/2019	04/22/2020	2020	202	Solar	Level 1
19-10391	10/03/2019	08/20/2020	2020	322	Solar	Level 1
19-10392	10/03/2019	03/13/2020	2020	162	Solar	Level 1
19-10393	10/03/2019	03/08/2020	2020	157	Solar	Level 1
19-10394	10/03/2019	03/18/2020	2020	167	Solar	Level 1
19-10395	10/03/2019	12/16/2020	2020	440	Solar	Level 1
19-10396	10/03/2019	02/19/2020	2020	139	Solar	Level 1
19-10397	10/03/2019	03/03/2020	2020	152	Solar	Level 1
19-10398	10/03/2019	01/31/2020	2020	120	Solar	Level 1
19-10399	10/03/2019	01/10/2020	2020	99	Solar	Level 1
19-10401	10/03/2019	01/02/2020	2020	91	Solar	Level 1
19-10402	10/03/2019	01/06/2020	2020	95	Solar	Level 1
19-10406	10/04/2019	02/24/2020	2020	143	Solar	Level 1
19-10407	10/04/2019	01/06/2020	2020	94	Solar	Level 1
19-10412	10/04/2019	03/31/2020	2020	179	Solar	Level 1
19-10413	10/04/2019	01/13/2020	2020	101	Solar	Level 1

19-10414	10/04/2019	03/03/2020	2020	151	Solar	Level 1
19-10415	10/04/2019	06/19/2020	2020	259	Solar	Level 1
19-10417	10/04/2019	01/06/2020	2020	94	Solar	Level 1
19-10418	10/04/2019	05/04/2020	2020	213	Solar	Level 1
19-10420	10/04/2019	01/07/2020	2020	95	Solar	Level 1
19-10421	10/04/2019	06/29/2020	2020	269	Solar	Level 1
19-10424	10/04/2019	01/16/2020	2020	104	Solar	Level 1
19-10426	10/04/2019	01/16/2020	2020	104	Solar	Level 1
19-10427	10/04/2019	04/14/2020	2020	193	Solar	Level 1
19-10428	10/04/2019	03/17/2020	2020	165	Solar	Level 1
19-10429	10/04/2019	02/07/2020	2020	126	Solar	Level 1
19-10434	10/04/2019	01/27/2020	2020	115	Solar	Level 1
19-10437	10/04/2019	07/30/2020	2020	300	Solar	Level 1
19-10438	10/04/2019	02/14/2020	2020	133	Solar	Level 1
19-10440	10/04/2019	01/10/2020	2020	98	Solar	Level 1
19-10442	10/04/2019	01/27/2020	2020	115	Solar	Level 1
19-10445	10/04/2019	01/09/2020	2020	97	Solar	Level 1
19-10446	10/04/2019	01/31/2020	2020	119	Solar	Level 1
19-10448	10/04/2019	03/23/2020	2020	171	Solar	Level 1
19-10449	10/04/2019	06/01/2020	2020	241	Solar	Level 1
19-10453	10/04/2019	01/06/2020	2020	94	Solar	Level 1
19-10454	10/04/2019	01/15/2020	2020	103	Solar	Level 1
19-10455	10/04/2019	02/25/2020	2020	144	Solar	Level 1
19-10457	10/04/2019	01/24/2020	2020	112	Solar	Level 2
19-10458	10/04/2019	01/31/2020	2020	119	Solar	Level 1
19-10459	10/04/2019	03/06/2020	2020	154	Solar	Level 1
19-10460	10/04/2019	01/15/2020	2020	103	Solar	Level 1
19-10462	10/04/2019	03/24/2020	2020	172	Solar	Level 1
19-10466	10/04/2019	01/24/2020	2020	112	Solar	Level 1
19-10467	10/04/2019	03/24/2020	2020	172	Solar	Level 1
19-10470	10/04/2019	03/17/2020	2020	165	Solar	Level 1
19-10471	10/04/2019	02/28/2020	2020	147	Solar	Level 1
19-10475	10/05/2019	02/03/2020	2020	121	Solar	Level 1
19-10480	10/05/2019	06/19/2020	2020	258	Solar	Level 1
19-10483	10/05/2019	08/30/2020	2020	330	Solar	Level 1
19-10486	10/07/2019	01/23/2020	2020	108	Solar	Level 1
19-10487	10/07/2019	02/07/2020	2020	123	Solar	Level 1
19-10491	10/07/2019	04/08/2020	2020	184	Solar	Level 1
19-10493	10/07/2019	01/29/2020	2020	114	Solar	Level 1
19-10502	10/07/2019	07/17/2020	2020	284	Solar	Level 1
19-10506	10/07/2019	01/10/2020	2020	95	Solar	Level 1

19-10507	10/07/2019	01/28/2020	2020	113	Solar	Level 1
19-10508	10/07/2019	01/13/2020	2020	98	Solar	Level 1
19-10509	10/07/2019	03/02/2020	2020	147	Solar	Level 1
19-10511	10/07/2019	02/07/2020	2020	123	Solar	Level 1
19-10512	10/07/2019	01/29/2020	2020	114	Solar	Level 1
19-10513	10/07/2019	01/29/2020	2020	114	Solar	Level 1
19-10517	10/07/2019	02/07/2020	2020	123	Solar	Level 1
19-10520	10/07/2019	03/24/2020	2020	169	Solar	Level 1
19-10521	10/07/2019	03/18/2020	2020	163	Solar	Level 1
19-10522	10/07/2019	02/17/2020	2020	133	Solar	Level 1
19-10523	10/07/2019	01/17/2020	2020	102	Solar	Level 1
19-10524	10/07/2019	02/26/2020	2020	142	Solar	Level 1
19-10527	10/07/2019	02/03/2020	2020	119	Solar	Level 1
19-10528	10/07/2019	03/02/2020	2020	147	Solar	Level 1
19-10530	10/07/2019	02/25/2020	2020	141	Solar	Level 1
19-10531	10/07/2019	01/23/2020	2020	108	Solar	Level 1
19-10534	10/08/2019	03/10/2020	2020	154	Solar	Level 1
19-10535	10/08/2019	01/12/2020	2020	96	Solar	Level 1
19-10536	10/08/2019	01/03/2020	2020	87	Solar	Level 1
19-10539	10/08/2019	06/05/2020	2020	241	Solar	Level 1
19-10540	10/08/2019	05/29/2020	2020	234	Solar	Level 1
19-10541	10/08/2019	06/29/2020	2020	265	Solar	Level 1
19-10542	10/08/2019	05/18/2020	2020	223	Solar	Level 1
19-10543	10/08/2019	01/10/2020	2020	94	Solar	Level 1
19-10547	10/08/2019	07/17/2020	2020	283	Solar	Level 1
19-10548	10/08/2019	07/07/2020	2020	273	Solar	Level 1
19-10552	10/08/2019	03/24/2020	2020	168	Solar	Level 1
19-10553	10/08/2019	08/21/2020	2020	318	Solar	Level 1
19-10554	10/08/2019	01/06/2020	2020	90	Solar	Level 1
19-10556	10/08/2019	01/09/2020	2020	93	Solar	Level 1
19-10557	10/08/2019	01/27/2020	2020	111	Solar	Level 1
19-10558	10/08/2019	01/02/2020	2020	86	Solar	Level 1
19-10561	10/08/2019	03/06/2020	2020	150	Solar	Level 1
19-10563	10/08/2019	02/13/2020	2020	128	Solar	Level 1
19-10564	10/08/2019	04/13/2020	2020	188	Solar	Level 1
19-10565	10/08/2019	01/06/2020	2020	90	Solar	Level 1
19-10566	10/08/2019	01/07/2020	2020	91	Solar	Level 1
19-10567	10/08/2019	03/16/2020	2020	160	Solar	Level 1
19-10568	10/08/2019	06/12/2020	2020	248	Solar	Level 1
19-10570	10/08/2019	08/14/2020	2020	311	Solar	Level 1
19-10573	10/08/2019	01/29/2020	2020	113	Solar	Level 1

19-10575	10/08/2019	04/07/2020	2020	182	Solar	Level 1
19-10576	10/08/2019	07/17/2020	2020	283	Solar	Level 1
19-10581	10/08/2019	01/29/2020	2020	113	Solar	Level 1
19-10582	10/08/2019	06/16/2020	2020	252	Solar	Level 1
19-10589	10/08/2019	03/17/2020	2020	161	Solar	Level 1
19-10590	10/08/2019	02/07/2020	2020	122	Solar	Level 1
19-10591	10/08/2019	02/12/2020	2020	127	Solar	Level 1
19-10592	10/08/2019	02/27/2020	2020	142	Solar	Level 1
19-10596	10/08/2019	01/22/2020	2020	106	Solar	Level 1
19-10597	10/08/2019	01/09/2020	2020	93	Solar	Level 1
19-10598	10/08/2019	08/21/2020	2020	318	Solar	Level 1
19-10602	10/08/2019	09/16/2020	2020	344	Solar	Level 1
19-10605	10/08/2019	03/19/2020	2020	163	Solar	Level 1
19-10606	10/08/2019	01/29/2020	2020	113	Solar	Level 1
19-10607	10/08/2019	04/27/2020	2020	202	Solar	Level 1
19-10608	10/09/2019	02/28/2020	2020	142	Solar	Level 1
19-10617	10/09/2019	02/11/2020	2020	125	Solar	Level 1
19-10618	10/09/2019	03/06/2020	2020	149	Solar	Level 1
19-10619	10/09/2019	08/19/2020	2020	315	Solar	Level 1
19-10628	10/09/2019	01/24/2020	2020	107	Solar	Level 1
19-10629	10/09/2019	12/10/2020	2020	428	Solar	Level 1
19-10632	10/09/2019	01/10/2020	2020	93	Solar	Level 1
19-10634	10/09/2019	06/03/2020	2020	238	Solar	Level 1
19-10636	10/09/2019	01/16/2020	2020	99	Solar	Level 1
19-10637	10/09/2019	02/26/2020	2020	140	Solar	Level 1
19-10638	10/09/2019	02/10/2020	2020	124	Solar	Level 1
19-10639	10/09/2019	01/09/2020	2020	92	Solar	Level 1
19-10640	10/09/2019	03/17/2020	2020	160	Solar	Level 1
19-10641	10/09/2019	03/23/2020	2020	166	Solar	Level 1
19-10642	10/09/2019	02/10/2020	2020	124	Solar	Level 1
19-10643	10/09/2019	04/16/2020	2020	190	Solar	Level 1
19-10644	10/09/2019	01/24/2020	2020	107	Solar	Level 1
19-10646	10/09/2019	03/24/2020	2020	167	Solar	Level 1
19-10649	10/09/2019	09/09/2020	2020	336	Solar	Level 1
19-10650	10/09/2019	04/29/2020	2020	203	Solar	Level 1
19-10652	10/09/2019	02/10/2020	2020	124	Solar	Level 1
19-10655	10/09/2019	01/29/2020	2020	112	Solar	Level 1
19-10657	10/09/2019	02/26/2020	2020	140	Solar	Level 1
19-10658	10/09/2019	01/29/2020	2020	112	Solar	Level 1
19-10660	10/09/2019	01/10/2020	2020	93	Solar	Level 1
19-10662	10/09/2019	04/02/2020	2020	176	Solar	Level 1

19-10663	10/09/2019	01/16/2020	2020	99	Solar	Level 1
19-10664	10/09/2019	01/09/2020	2020	92	Solar	Level 1
19-10667	10/09/2019	03/03/2020	2020	146	Solar	Level 1
19-10668	10/09/2019	05/18/2020	2020	222	Solar	Level 1
19-10669	10/09/2019	04/30/2020	2020	204	Solar	Level 1
19-10671	10/09/2019	09/16/2020	2020	343	Solar	Level 1
19-10672	10/09/2019	04/03/2020	2020	177	Solar	Level 1
19-10675	10/10/2019	01/16/2020	2020	98	Solar	Level 1
19-10677	10/10/2019	02/18/2020	2020	131	Solar	Level 1
19-10678	10/10/2019	04/27/2020	2020	200	Solar	Level 1
19-10680	10/10/2019	06/12/2020	2020	246	Solar	Level 1
19-10682	10/10/2019	09/13/2020	2020	339	Solar	Level 1
19-10683	10/10/2019	02/26/2020	2020	139	Solar	Level 1
19-10687	10/10/2019	02/07/2020	2020	120	Solar	Level 1
19-10689	10/10/2019	08/06/2020	2020	301	Solar	Level 1
19-10690	10/10/2019	06/23/2020	2020	257	Solar	Level 1
19-10695	10/10/2019	06/24/2020	2020	258	Solar	Level 1
19-10696	10/10/2019	02/20/2020	2020	133	Solar	Level 1
19-10697	10/10/2019	04/16/2020	2020	189	Solar	Level 1
19-10700	10/10/2019	01/23/2020	2020	105	Solar	Level 1
19-10701	10/10/2019	02/11/2020	2020	124	Solar	Level 1
19-10703	10/10/2019	01/12/2020	2020	94	Solar	Level 1
19-10705	10/10/2019	03/20/2020	2020	162	Solar	Level 1
19-10706	10/10/2019	08/19/2020	2020	314	Solar	Level 1
19-10711	10/10/2019	06/25/2020	2020	259	Solar	Level 1
19-10713	10/10/2019	02/03/2020	2020	116	Solar	Level 1
19-10714	10/10/2019	07/22/2020	2020	286	Solar	Level 1
19-10715	10/10/2019	02/13/2020	2020	126	Solar	Level 1
19-10716	10/10/2019	03/31/2020	2020	173	Solar	Level 1
19-10717	10/10/2019	06/09/2020	2020	243	Solar	Level 1
19-10718	10/10/2019	06/23/2020	2020	257	Solar	Level 1
19-10719	10/10/2019	01/23/2020	2020	105	Solar	Level 1
19-10722	10/10/2019	06/18/2020	2020	252	Solar	Level 1
19-10725	10/10/2019	03/17/2020	2020	159	Solar	Level 1
19-10727	10/10/2019	02/13/2020	2020	126	Solar	Level 1
19-10729	10/10/2019	01/06/2020	2020	88	Solar	Level 1
19-10730	10/10/2019	05/29/2020	2020	232	Solar	Level 1
19-10731	10/10/2019	01/21/2020	2020	103	Solar	Level 1
19-10732	10/10/2019	04/26/2020	2020	199	Solar	Level 1
19-10734	10/10/2019	06/12/2020	2020	246	Solar	Level 1
19-10735	10/10/2019	06/11/2020	2020	245	Solar	Level 1

19-10737	10/10/2019	02/06/2020	2020	119	Solar	Level 1
19-10738	10/10/2019	01/14/2020	2020	96	Solar	Level 1
19-10739	10/10/2019	06/29/2020	2020	263	Solar	Level 1
19-10741	10/10/2019	02/10/2020	2020	123	Solar	Level 1
19-10742	10/10/2019	03/09/2020	2020	151	Solar	Level 1
19-10743	10/10/2019	10/21/2020	2020	377	Solar	Level 1
19-10747	10/10/2019	09/10/2020	2020	336	Solar	Level 1
19-10748	10/10/2019	03/17/2020	2020	159	Solar	Level 1
19-10749	10/10/2019	01/24/2020	2020	106	Solar	Level 1
19-10751	10/10/2019	02/21/2020	2020	134	Solar	Level 1
19-10753	10/10/2019	05/26/2020	2020	229	Solar	Level 1
19-10756	10/11/2019	04/21/2020	2020	193	Solar	Level 1
19-10757	10/11/2019	01/05/2020	2020	86	Solar	Level 1
19-10758	10/11/2019	01/10/2020	2020	91	Solar	Level 1
19-10760	10/11/2019	01/12/2020	2020	93	Solar	Level 1
19-10761	10/11/2019	01/07/2020	2020	88	Solar	Level 1
19-10762	10/11/2019	02/11/2020	2020	123	Solar	Level 1
19-10764	10/11/2019	02/04/2020	2020	116	Solar	Level 1
19-10766	10/11/2019	01/17/2020	2020	98	Solar	Level 1
19-10767	10/11/2019	01/07/2020	2020	88	Solar	Level 1
19-10768	10/11/2019	02/13/2020	2020	125	Solar	Level 1
19-10769	10/11/2019	04/13/2020	2020	185	Solar	Level 1
19-10775	10/11/2019	02/07/2020	2020	119	Solar	Level 1
19-10777	10/11/2019	02/14/2020	2020	126	Solar	Level 1
19-10778	10/11/2019	03/09/2020	2020	150	Solar	Level 1
19-10780	10/11/2019	04/26/2020	2020	198	Solar	Level 1
19-10782	10/11/2019	11/04/2020	2020	390	Solar	Level 1
19-10786	10/11/2019	07/22/2020	2020	285	Solar	Level 1
19-10790	10/11/2019	06/12/2020	2020	245	Solar	Level 1
19-10795	10/11/2019	04/14/2020	2020	186	Solar	Level 1
19-10796	10/11/2019	04/26/2020	2020	198	Solar	Level 1
19-10797	10/11/2019	05/26/2020	2020	228	Solar	Level 1
19-10798	10/11/2019	01/22/2020	2020	103	Solar	Level 1
19-10799	10/11/2019	04/16/2020	2020	188	Solar	Level 1
19-10800	10/11/2019	02/12/2020	2020	124	Solar	Level 1
19-10804	10/11/2019	01/28/2020	2020	109	Solar	Level 1
19-10805	10/11/2019	02/19/2020	2020	131	Solar	Level 1
19-10807	10/11/2019	12/22/2020	2020	438	Solar	Level 2
19-10810	10/11/2019	04/30/2020	2020	202	Solar	Level 1
19-10811	10/11/2019	01/17/2020	2020	98	Solar	Level 1
19-10815	10/11/2019	02/13/2020	2020	125	Solar	Level 1

19-10817	10/11/2019	08/14/2020	2020	308	Solar	Level 1
19-10821	10/12/2019	08/20/2020	2020	313	Solar	Level 1
19-10822	10/12/2019	04/03/2020	2020	174	Solar	Level 1
19-10825	10/12/2019	01/08/2020	2020	88	Solar	Level 1
19-10826	10/12/2019	06/22/2020	2020	254	Solar	Level 1
19-10827	10/12/2019	07/24/2020	2020	286	Solar	Level 1
19-10831	10/12/2019	03/05/2020	2020	145	Solar	Level 1
19-10832	10/12/2019	01/27/2020	2020	107	Solar	Level 1
19-10838	10/14/2019	02/19/2020	2020	128	Solar	Level 1
19-10839	10/14/2019	01/03/2020	2020	81	Solar	Level 1
19-10840	10/14/2019	01/29/2020	2020	107	Solar	Level 1
19-10843	10/14/2019	05/08/2020	2020	207	Solar	Level 1
19-10844	10/14/2019	06/18/2020	2020	248	Solar	Level 1
19-10851	10/14/2019	07/17/2020	2020	277	Solar	Level 1
19-10854	10/14/2019	02/25/2020	2020	134	Solar	Level 1
19-10855	10/14/2019	04/27/2020	2020	196	Solar	Level 1
19-10857	10/14/2019	04/22/2020	2020	191	Solar	Level 1
19-10858	10/14/2019	06/11/2020	2020	241	Solar	Level 1
19-10859	10/14/2019	04/09/2020	2020	178	Solar	Level 1
19-10860	10/14/2019	09/11/2020	2020	333	Solar	Level 1
19-10861	10/14/2019	06/29/2020	2020	259	Solar	Level 1
19-10862	10/14/2019	01/17/2020	2020	95	Solar	Level 1
19-10864	10/14/2019	05/22/2020	2020	221	Solar	Level 1
19-10865	10/14/2019	03/18/2020	2020	156	Solar	Level 1
19-10867	10/14/2019	01/16/2020	2020	94	Solar	Level 1
19-10869	10/14/2019	09/21/2020	2020	343	Solar	Level 1
19-10871	10/14/2019	06/07/2020	2020	237	Solar	Level 1
19-10872	10/14/2019	03/25/2020	2020	163	Solar	Level 1
19-10873	10/14/2019	02/03/2020	2020	112	Solar	Level 1
19-10875	10/14/2019	06/18/2020	2020	248	Solar	Level 1
19-10879	10/14/2019	02/24/2020	2020	133	Solar	Level 1
19-10883	10/14/2019	02/03/2020	2020	112	Solar	Level 1
19-10886	10/14/2019	10/06/2020	2020	358	Solar	Level 1
19-10899	10/14/2019	01/27/2020	2020	105	Solar	Level 1
19-10900	10/14/2019	03/13/2020	2020	151	Solar	Level 1
19-10902	10/14/2019	07/31/2020	2020	291	Solar	Level 1
19-10903	10/14/2019	04/20/2020	2020	189	Solar	Level 1
19-10904	10/14/2019	10/14/2020	2020	366	Solar	Level 1
19-10905	10/14/2019	02/12/2020	2020	121	Solar	Level 1
19-10910	10/14/2019	10/12/2020	2020	364	Solar	Level 1
19-10913	10/15/2019	04/13/2020	2020	181	Solar	Level 1

19-10921	10/15/2019	05/15/2020	2020	213	Solar	Level 1
19-10924	10/15/2019	01/29/2020	2020	106	Solar	Level 4
19-10925	10/15/2019	06/24/2020	2020	253	Solar	Level 1
19-10926	10/15/2019	01/13/2020	2020	90	Solar	Level 1
19-10927	10/15/2019	06/03/2020	2020	232	Solar	Level 1
19-10928	10/15/2019	01/24/2020	2020	101	Solar	Level 1
19-10929	10/15/2019	01/24/2020	2020	101	Solar	Level 1
19-10931	10/15/2019	01/02/2020	2020	79	Solar	Level 1
19-10932	10/15/2019	04/30/2020	2020	198	Solar	Level 1
19-10933	10/15/2019	01/24/2020	2020	101	Solar	Level 4
19-10935	10/15/2019	03/06/2020	2020	143	Solar	Level 1
19-10936	10/15/2019	05/04/2020	2020	202	Solar	Level 1
19-10939	10/15/2019	02/20/2020	2020	128	Solar	Level 1
19-10940	10/15/2019	01/16/2020	2020	93	Solar	Level 1
19-10941	10/15/2019	03/03/2020	2020	140	Solar	Level 1
19-10942	10/15/2019	03/24/2020	2020	161	Solar	Level 1
19-10944	10/15/2019	06/29/2020	2020	258	Solar	Level 1
19-10946	10/15/2019	05/22/2020	2020	220	Solar	Level 1
19-10947	10/15/2019	02/28/2020	2020	136	Solar	Level 1
19-10949	10/15/2019	01/29/2020	2020	106	Solar	Level 1
19-10951	10/15/2019	01/16/2020	2020	93	Solar	Level 1
19-10954	10/15/2019	05/19/2020	2020	217	Solar	Level 1
19-10955	10/15/2019	03/17/2020	2020	154	Solar	Level 1
19-10957	10/15/2019	06/24/2020	2020	253	Solar	Level 1
19-10958	10/15/2019	09/22/2020	2020	343	Solar	Level 1
19-10960	10/15/2019	06/12/2020	2020	241	Solar	Level 1
19-10961	10/15/2019	02/24/2020	2020	132	Solar	Level 1
19-10964	10/15/2019	11/06/2020	2020	388	Solar	Level 1
19-10965	10/15/2019	06/02/2020	2020	231	Solar	Level 1
19-10966	10/15/2019	11/04/2020	2020	386	Solar	Level 1
19-10967	10/15/2019	06/15/2020	2020	244	Solar	Level 1
19-10968	10/15/2019	01/14/2020	2020	91	Solar	Level 1
19-10969	10/15/2019	01/09/2020	2020	86	Solar	Level 1
19-10971	10/15/2019	01/10/2020	2020	87	Solar	Level 1
19-10973	10/16/2019	03/11/2020	2020	147	Solar	Level 1
19-10974	10/16/2019	01/28/2020	2020	104	Solar	Level 1
19-10976	10/16/2019	02/25/2020	2020	132	Solar	Level 1
19-10979	10/16/2019	02/05/2020	2020	112	Solar	Level 1
19-10980	10/16/2019	01/03/2020	2020	79	Solar	Level 1
19-10981	10/16/2019	02/25/2020	2020	132	Solar	Level 1
19-10984	10/16/2019	05/04/2020	2020	201	Solar	Level 1

19-10987	10/16/2019	07/28/2020	2020	286	Solar	Level 1
19-10988	10/16/2019	05/19/2020	2020	216	Solar	Level 1
19-10989	10/16/2019	02/13/2020	2020	120	Solar	Level 1
19-10992	10/16/2019	12/18/2020	2020	429	Solar	Level 2
19-10994	10/16/2019	03/17/2020	2020	153	Solar	Level 1
19-10995	10/16/2019	03/30/2020	2020	166	Solar	Level 1
19-10998	10/16/2019	04/22/2020	2020	189	Solar	Level 1
19-11000	10/16/2019	01/17/2020	2020	93	Solar	Level 1
19-11001	10/16/2019	04/16/2020	2020	183	Solar	Level 1
19-11002	10/16/2019	03/17/2020	2020	153	Solar	Level 1
19-11006	10/16/2019	08/26/2020	2020	315	Solar	Level 1
19-11007	10/16/2019	06/26/2020	2020	254	Solar	Level 1
19-11012	10/17/2019	08/26/2020	2020	314	Solar	Level 1
19-11015	10/17/2019	01/28/2020	2020	103	Solar	Level 1
19-11018	10/17/2019	05/07/2020	2020	203	Solar	Level 1
19-11020	10/17/2019	02/09/2020	2020	115	Solar	Level 1
19-11021	10/17/2019	10/06/2020	2020	355	Solar	Level 1
19-11024	10/17/2019	02/07/2020	2020	113	Solar	Level 1
19-11025	10/17/2019	10/19/2020	2020	368	Solar	Level 1
19-11029	10/17/2019	05/08/2020	2020	204	Solar	Level 1
19-11030	10/17/2019	01/09/2020	2020	84	Solar	Level 1
19-11031	10/17/2019	06/04/2020	2020	231	Solar	Level 1
19-11033	10/17/2019	12/10/2020	2020	420	Solar	Level 1
19-11035	10/17/2019	01/17/2020	2020	92	Solar	Level 1
19-11038	10/17/2019	01/15/2020	2020	90	Solar	Level 1
19-11039	10/17/2019	08/06/2020	2020	294	Solar	Level 1
19-11040	10/17/2019	06/12/2020	2020	239	Solar	Level 1
19-11042	10/17/2019	01/21/2020	2020	96	Solar	Level 1
19-11047	10/17/2019	04/02/2020	2020	168	Solar	Level 1
19-11052	10/17/2019	01/02/2020	2020	77	Solar	Level 1
19-11053	10/17/2019	02/11/2020	2020	117	Solar	Level 1
19-11056	10/17/2019	08/19/2020	2020	307	Solar	Level 1
19-11057	10/17/2019	01/31/2020	2020	106	Solar	Level 1
19-11059	10/17/2019	06/24/2020	2020	251	Solar	Level 1
19-11062	10/17/2019	09/17/2020	2020	336	Solar	Level 1
19-11063	10/17/2019	01/24/2020	2020	99	Solar	Level 1
19-11065	10/17/2019	03/18/2020	2020	153	Solar	Level 1
19-11067	10/17/2019	01/27/2020	2020	102	Solar	Level 1
19-11068	10/17/2019	05/04/2020	2020	200	Solar	Level 1
19-11069	10/17/2019	06/29/2020	2020	256	Solar	Level 1
19-11070	10/17/2019	01/10/2020	2020	85	Solar	Level 1

19-11071	10/17/2019	02/13/2020	2020	119	Solar	Level 1
19-11073	10/17/2019	01/10/2020	2020	85	Solar	Level 1
19-11075	10/17/2019	05/06/2020	2020	202	Solar	Level 1
19-11078	10/17/2019	04/23/2020	2020	189	Solar	Level 1
19-11080	10/17/2019	01/24/2020	2020	99	Solar	Level 1
19-11082	10/17/2019	08/01/2020	2020	289	Solar	Level 1
19-11084	10/17/2019	06/08/2020	2020	235	Solar	Level 1
19-11085	10/17/2019	03/10/2020	2020	145	Solar	Level 1
19-11086	10/17/2019	01/06/2020	2020	81	Solar	Level 2
19-11087	10/17/2019	01/14/2020	2020	89	Solar	Level 2
19-11093	10/17/2019	03/03/2020	2020	138	Solar	Level 1
19-11096	10/17/2019	05/04/2020	2020	200	Solar	Level 1
19-11097	10/17/2019	02/28/2020	2020	134	Solar	Level 1
19-11098	10/17/2019	02/28/2020	2020	134	Solar	Level 1
19-11099	10/17/2019	08/11/2020	2020	299	Solar	Level 1
19-11100	10/17/2019	09/23/2020	2020	342	Solar	Level 1
19-11102	10/17/2019	12/16/2020	2020	426	Solar	Level 1
19-11105	10/18/2019	03/03/2020	2020	137	Solar	Level 1
19-11107	10/18/2019	08/27/2020	2020	314	Solar	Level 1
19-11108	10/18/2019	08/27/2020	2020	314	Solar	Level 1
19-11111	10/18/2019	01/15/2020	2020	89	Solar	Level 1
19-11116	10/18/2019	07/21/2020	2020	277	Solar	Level 1
19-11117	10/18/2019	02/07/2020	2020	112	Solar	Level 1
19-11119	10/18/2019	04/18/2020	2020	183	Solar	Level 1
19-11120	10/18/2019	02/18/2020	2020	123	Solar	Level 1
19-11123	10/18/2019	01/21/2020	2020	95	Solar	Level 1
19-11124	10/18/2019	03/19/2020	2020	153	Solar	Level 1
19-11125	10/18/2019	02/24/2020	2020	129	Solar	Level 2
19-11126	10/18/2019	09/23/2020	2020	341	Solar	Level 1
19-11128	10/18/2019	05/26/2020	2020	221	Solar	Level 1
19-11131	10/18/2019	08/06/2020	2020	293	Solar	Level 1
19-11132	10/18/2019	05/07/2020	2020	202	Solar	Level 1
19-11133	10/18/2019	08/04/2020	2020	291	Solar	Level 1
19-11134	10/18/2019	05/20/2020	2020	215	Solar	Level 1
19-11136	10/18/2019	05/28/2020	2020	223	Solar	Level 1
19-11137	10/18/2019	05/04/2020	2020	199	Solar	Level 1
19-11138	10/18/2019	02/07/2020	2020	112	Solar	Level 1
19-11141	10/18/2019	01/24/2020	2020	98	Solar	Level 1
19-11142	10/18/2019	06/05/2020	2020	231	Solar	Level 1
19-11143	10/18/2019	02/05/2020	2020	110	Solar	Level 1
19-11145	10/18/2019	07/22/2020	2020	278	Solar	Level 1

19-11146	10/18/2019	01/31/2020	2020	105	Solar	Level 1
19-11148	10/19/2019	07/13/2020	2020	268	Solar	Level 1
19-11149	10/19/2019	03/19/2020	2020	152	Solar	Level 1
19-11152	10/19/2019	03/18/2020	2020	151	Solar	Level 1
19-11154	10/19/2019	03/17/2020	2020	150	Solar	Level 1
19-11156	10/19/2019	09/02/2020	2020	319	Solar	Level 1
19-11158	10/19/2019	02/10/2020	2020	114	Solar	Level 1
19-11160	10/19/2019	06/22/2020	2020	247	Solar	Level 1
19-11161	10/19/2019	06/03/2020	2020	228	Solar	Level 1
19-11163	10/19/2019	01/17/2020	2020	90	Solar	Level 1
19-11164	10/19/2019	01/16/2020	2020	89	Solar	Level 1
19-11165	10/19/2019	05/19/2020	2020	213	Solar	Level 1
19-11166	10/19/2019	01/28/2020	2020	101	Solar	Level 1
19-11167	10/19/2019	02/13/2020	2020	117	Solar	Level 1
19-11168	10/19/2019	08/20/2020	2020	306	Solar	Level 1
19-11169	10/19/2019	01/14/2020	2020	87	Solar	Level 1
19-11170	10/19/2019	03/12/2020	2020	145	Solar	Level 1
19-11171	10/19/2019	07/31/2020	2020	286	Solar	Level 1
19-11172	10/19/2019	01/08/2020	2020	81	Solar	Level 1
19-11174	10/19/2019	10/26/2020	2020	373	Solar	Level 1
19-11178	10/21/2019	02/13/2020	2020	115	Solar	Level 1
19-11180	10/21/2019	05/06/2020	2020	198	Solar	Level 1
19-11181	10/21/2019	09/06/2020	2020	321	Solar	Level 1
19-11182	10/21/2019	08/20/2020	2020	304	Solar	Level 1
19-11186	10/21/2019	03/02/2020	2020	133	Solar	Level 1
19-11187	10/21/2019	05/26/2020	2020	218	Solar	Level 1
19-11188	10/21/2019	04/23/2020	2020	185	Solar	Level 1
19-11192	10/21/2019	11/12/2020	2020	388	Solar	Level 1
19-11195	10/21/2019	05/15/2020	2020	207	Solar	Level 1
19-11198	10/21/2019	03/19/2020	2020	150	Solar	Level 1
19-11199	10/21/2019	02/04/2020	2020	106	Solar	Level 1
19-11200	10/21/2019	01/24/2020	2020	95	Solar	Level 1
19-11201	10/21/2019	07/29/2020	2020	282	Solar	Level 1
19-11202	10/21/2019	04/03/2020	2020	165	Solar	Level 2
19-11204	10/21/2019	06/17/2020	2020	240	Solar	Level 1
19-11205	10/21/2019	01/08/2020	2020	79	Solar	Level 1
19-11209	10/21/2019	03/16/2020	2020	147	Solar	Level 1
19-11210	10/21/2019	03/11/2020	2020	142	Solar	Level 1
19-11211	10/21/2019	03/04/2020	2020	135	Solar	Level 1
19-11212	10/21/2019	01/13/2020	2020	84	Solar	Level 1
19-11216	10/21/2019	08/14/2020	2020	298	Solar	Level 1

19-11217	10/21/2019	04/02/2020	2020	164	Solar	Level 1
19-11219	10/21/2019	07/09/2020	2020	262	Solar	Level 1
19-11221	10/21/2019	06/29/2020	2020	252	Solar	Level 1
19-11222	10/21/2019	04/20/2020	2020	182	Solar	Level 1
19-11224	10/21/2019	01/13/2020	2020	84	Solar	Level 1
19-11228	10/21/2019	02/12/2020	2020	114	Solar	Level 1
19-11229	10/21/2019	01/17/2020	2020	88	Solar	Level 1
19-11231	10/21/2019	01/09/2020	2020	80	Solar	Level 1
19-11232	10/21/2019	07/20/2020	2020	273	Solar	Level 1
19-11233	10/21/2019	02/10/2020	2020	112	Solar	Level 1
19-11236	10/21/2019	03/13/2020	2020	144	Solar	Level 1
19-11237	10/21/2019	03/14/2020	2020	145	Solar	Level 1
19-11238	10/21/2019	02/17/2020	2020	119	Solar	Level 1
19-11239	10/21/2019	02/11/2020	2020	113	Solar	Level 1
19-11240	10/21/2019	01/27/2020	2020	98	Solar	Level 1
19-11241	10/21/2019	03/09/2020	2020	140	Solar	Level 1
19-11243	10/21/2019	01/29/2020	2020	100	Solar	Level 1
19-11244	10/21/2019	04/27/2020	2020	189	Solar	Level 1
19-11247	10/21/2019	06/01/2020	2020	224	Solar	Level 1
19-11248	10/21/2019	07/31/2020	2020	284	Solar	Level 1
19-11250	10/21/2019	07/23/2020	2020	276	Solar	Level 1
19-11251	10/21/2019	10/07/2020	2020	352	Solar	Level 1
19-11252	10/21/2019	03/05/2020	2020	136	Solar	Level 1
19-11253	10/21/2019	08/19/2020	2020	303	Solar	Level 1
19-11255	10/22/2019	01/09/2020	2020	79	Solar	Level 1
19-11256	10/22/2019	08/13/2020	2020	296	Solar	Level 1
19-11258	10/22/2019	05/19/2020	2020	210	Solar	Level 1
19-11259	10/22/2019	06/10/2020	2020	232	Solar	Level 1
19-11260	10/22/2019	06/24/2020	2020	246	Solar	Level 1
19-11262	10/22/2019	03/26/2020	2020	156	Solar	Level 1
19-11266	10/22/2019	06/01/2020	2020	223	Solar	Level 1
19-11267	10/22/2019	02/24/2020	2020	125	Solar	Level 1
19-11272	10/22/2019	12/01/2020	2020	406	Solar	Level 1
19-11273	10/22/2019	03/10/2020	2020	140	Solar	Level 1
19-11274	10/22/2019	09/15/2020	2020	329	Solar	Level 1
19-11275	10/22/2019	11/03/2020	2020	378	Solar	Level 1
19-11276	10/22/2019	03/11/2020	2020	141	Solar	Level 1
19-11277	10/22/2019	03/17/2020	2020	147	Solar	Level 1
19-11279	10/22/2019	02/25/2020	2020	126	Solar	Level 1
19-11280	10/22/2019	01/16/2020	2020	86	Solar	Level 1
19-11283	10/22/2019	02/05/2020	2020	106	Solar	Level 1

19-11285	10/22/2019	01/14/2020	2020	84	Solar	Level 1
19-11286	10/22/2019	08/20/2020	2020	303	Solar	Level 1
19-11288	10/22/2019	02/25/2020	2020	126	Solar	Level 1
19-11289	10/22/2019	01/10/2020	2020	80	Solar	Level 1
19-11290	10/22/2019	03/17/2020	2020	147	Solar	Level 1
19-11291	10/22/2019	03/18/2020	2020	148	Solar	Level 1
19-11294	10/22/2019	05/06/2020	2020	197	Solar	Level 1
19-11295	10/22/2019	04/20/2020	2020	181	Solar	Level 1
19-11296	10/22/2019	02/24/2020	2020	125	Solar	Level 1
19-11297	10/22/2019	09/06/2020	2020	320	Solar	Level 1
19-11300	10/22/2019	04/21/2020	2020	182	Solar	Level 1
19-11304	10/22/2019	04/03/2020	2020	164	Solar	Level 1
19-11305	10/22/2019	04/15/2020	2020	176	Solar	Level 1
19-11310	10/22/2019	01/28/2020	2020	98	Solar	Level 1
19-11311	10/22/2019	01/16/2020	2020	86	Solar	Level 1
19-11314	10/22/2019	09/16/2020	2020	330	Solar	Level 1
19-11315	10/22/2019	02/17/2020	2020	118	Solar	Level 1
19-11322	10/23/2019	03/05/2020	2020	134	Solar	Level 1
19-11324	10/23/2019	02/12/2020	2020	112	Solar	Level 1
19-11325	10/23/2019	06/07/2020	2020	228	Solar	Level 1
19-11326	10/23/2019	03/10/2020	2020	139	Solar	Level 1
19-11327	10/23/2019	02/14/2020	2020	114	Solar	Level 1
19-11328	10/23/2019	09/23/2020	2020	336	Solar	Level 1
19-11329	10/23/2019	09/28/2020	2020	341	Solar	Level 1
19-11330	10/23/2019	05/18/2020	2020	208	Solar	Level 1
19-11331	10/23/2019	06/12/2020	2020	233	Solar	Level 1
19-11332	10/23/2019	01/27/2020	2020	96	Solar	Level 1
19-11333	10/23/2019	05/19/2020	2020	209	Solar	Level 1
19-11334	10/23/2019	03/31/2020	2020	160	Solar	Level 1
19-11335	10/23/2019	02/18/2020	2020	118	Solar	Level 4
19-11337	10/23/2019	05/21/2020	2020	211	Solar	Level 1
19-11341	10/23/2019	02/03/2020	2020	103	Solar	Level 1
19-11342	10/23/2019	02/17/2020	2020	117	Solar	Level 1
19-11346	10/23/2019	02/13/2020	2020	113	Solar	Level 1
19-11348	10/23/2019	06/22/2020	2020	243	Solar	Level 1
19-11353	10/23/2019	01/27/2020	2020	96	Solar	Level 1
19-11356	10/23/2019	01/14/2020	2020	83	Solar	Level 1
19-11358	10/23/2019	10/19/2020	2020	362	Solar	Level 1
19-11359	10/23/2019	01/16/2020	2020	85	Solar	Level 1
19-11360	10/23/2019	04/13/2020	2020	173	Solar	Level 1
19-11361	10/23/2019	01/24/2020	2020	93	Solar	Level 1

19-11365	10/23/2019	01/03/2020	2020	72	Solar	Level 1
19-11366	10/23/2019	03/16/2020	2020	145	Solar	Level 1
19-11367	10/23/2019	02/20/2020	2020	120	Solar	Level 1
19-11368	10/23/2019	02/28/2020	2020	128	Solar	Level 1
19-11369	10/23/2019	01/03/2020	2020	72	Solar	Level 1
19-11370	10/23/2019	01/21/2020	2020	90	Solar	Level 1
19-11372	10/23/2019	01/17/2020	2020	86	Solar	Level 1
19-11375	10/23/2019	08/13/2020	2020	295	Solar	Level 1
19-11376	10/23/2019	02/04/2020	2020	104	Solar	Level 1
19-11378	10/23/2019	01/24/2020	2020	93	Solar	Level 1
19-11382	10/23/2019	06/19/2020	2020	240	Solar	Level 1
19-11383	10/23/2019	01/23/2020	2020	92	Solar	Level 1
19-11384	10/23/2019	08/14/2020	2020	296	Solar	Level 1
19-11385	10/23/2019	10/12/2020	2020	355	Solar	Level 1
19-11386	10/23/2019	04/27/2020	2020	187	Solar	Level 1
19-11390	10/23/2019	02/10/2020	2020	110	Solar	Level 1
19-11391	10/23/2019	05/20/2020	2020	210	Solar	Level 1
19-11392	10/23/2019	01/27/2020	2020	96	Solar	Level 1
19-11394	10/24/2019	05/28/2020	2020	217	Solar	Level 1
19-11397	10/24/2019	02/11/2020	2020	110	Solar	Level 1
19-11398	10/24/2019	05/12/2020	2020	201	Solar	Level 1
19-11400	10/24/2019	10/16/2020	2020	358	Solar	Level 1
19-11401	10/24/2019	01/24/2020	2020	92	Solar	Level 1
19-11402	10/24/2019	02/19/2020	2020	118	Solar	Level 1
19-11407	10/24/2019	04/14/2020	2020	173	Solar	Level 1
19-11410	10/24/2019	08/19/2020	2020	300	Solar	Level 1
19-11418	10/24/2019	05/20/2020	2020	209	Solar	Level 1
19-11421	10/24/2019	06/30/2020	2020	250	Solar	Level 1
19-11422	10/24/2019	04/13/2020	2020	172	Solar	Level 1
19-11423	10/24/2019	06/30/2020	2020	250	Solar	Level 1
19-11424	10/24/2019	06/29/2020	2020	249	Solar	Level 1
19-11425	10/24/2019	03/11/2020	2020	139	Solar	Level 1
19-11426	10/24/2019	02/06/2020	2020	105	Solar	Level 1
19-11428	10/24/2019	02/13/2020	2020	112	Solar	Level 1
19-11430	10/24/2019	08/21/2020	2020	302	Solar	Level 1
19-11432	10/24/2019	06/01/2020	2020	221	Solar	Level 1
19-11434	10/24/2019	01/24/2020	2020	92	Solar	Level 1
19-11442	10/24/2019	01/27/2020	2020	95	Solar	Level 1
19-11447	10/24/2019	10/16/2020	2020	358	Solar	Level 1
19-11448	10/24/2019	06/29/2020	2020	249	Solar	Level 1
19-11451	10/24/2019	05/26/2020	2020	215	Solar	Level 1

19-11455	10/25/2019	01/24/2020	2020	91	Solar	Level 1
19-11459	10/25/2019	04/21/2020	2020	179	Solar	Level 1
19-11461	10/25/2019	04/23/2020	2020	181	Solar	Level 1
19-11464	10/25/2019	03/11/2020	2020	138	Solar	Level 1
19-11466	10/25/2019	06/17/2020	2020	236	Solar	Level 1
19-11467	10/25/2019	02/18/2020	2020	116	Solar	Level 1
19-11468	10/25/2019	08/19/2020	2020	299	Solar	Level 1
19-11470	10/25/2019	01/21/2020	2020	88	Solar	Level 1
19-11471	10/25/2019	02/17/2020	2020	115	Solar	Level 1
19-11472	10/25/2019	02/19/2020	2020	117	Solar	Level 1
19-11473	10/25/2019	01/17/2020	2020	84	Solar	Level 1
19-11475	10/25/2019	01/08/2020	2020	75	Solar	Level 1
19-11476	10/25/2019	01/14/2020	2020	81	Solar	Level 1
19-11479	10/25/2019	06/29/2020	2020	248	Solar	Level 1
19-11482	10/25/2019	09/11/2020	2020	322	Solar	Level 1
19-11483	10/25/2019	01/27/2020	2020	94	Solar	Level 1
19-11484	10/25/2019	02/05/2020	2020	103	Solar	Level 1
19-11485	10/25/2019	04/07/2020	2020	165	Solar	Level 1
19-11487	10/25/2019	03/17/2020	2020	144	Solar	Level 1
19-11488	10/25/2019	01/08/2020	2020	75	Solar	Level 1
19-11491	10/25/2019	09/14/2020	2020	325	Solar	Level 1
19-11494	10/25/2019	02/25/2020	2020	123	Solar	Level 1
19-11496	10/25/2019	03/17/2020	2020	144	Solar	Level 1
19-11497	10/25/2019	02/18/2020	2020	116	Solar	Level 1
19-11500	10/25/2019	06/19/2020	2020	238	Solar	Level 1
19-11501	10/25/2019	06/18/2020	2020	237	Solar	Level 1
19-11503	10/25/2019	06/11/2020	2020	230	Solar	Level 1
19-11507	10/25/2019	10/21/2020	2020	362	Solar	Level 1
19-11511	10/25/2019	03/23/2020	2020	150	Solar	Level 1
19-11513	10/25/2019	04/27/2020	2020	185	Solar	Level 1
19-11516	10/25/2019	05/21/2020	2020	209	Solar	Level 1
19-11517	10/25/2019	03/26/2020	2020	153	Solar	Level 1
19-11518	10/25/2019	03/13/2020	2020	140	Solar	Level 1
19-11521	10/25/2019	10/29/2020	2020	370	Solar	Level 1
19-11526	10/25/2019	05/18/2020	2020	206	Solar	Level 1
19-11529	10/25/2019	02/19/2020	2020	117	Solar	Level 1
19-11530	10/25/2019	10/21/2020	2020	362	Solar	Level 1
19-11532	10/25/2019	02/07/2020	2020	105	Solar	Level 1
19-11534	10/25/2019	04/07/2020	2020	165	Solar	Level 1
19-11535	10/25/2019	04/06/2020	2020	164	Solar	Level 1
19-11538	10/26/2019	05/06/2020	2020	193	Solar	Level 1

19-11539	10/26/2019	08/18/2020	2020	297	Solar	Level 1
19-11541	10/27/2019	01/06/2020	2020	71	Solar	Level 1
19-11542	10/27/2019	02/07/2020	2020	103	Solar	Level 1
19-11545	10/27/2019	02/03/2020	2020	99	Solar	Level 1
19-11548	10/28/2019	02/04/2020	2020	99	Solar	Level 1
19-11549	10/28/2019	01/29/2020	2020	93	Solar	Level 1
19-11551	10/28/2019	02/07/2020	2020	102	Solar	Level 1
19-11552	10/28/2019	11/09/2020	2020	378	Solar	Level 2
19-11553	10/28/2019	01/13/2020	2020	77	Solar	Level 1
19-11554	10/28/2019	01/09/2020	2020	73	Solar	Level 1
19-11555	10/28/2019	01/06/2020	2020	70	Solar	Level 1
19-11556	10/28/2019	03/03/2020	2020	127	Solar	Level 1
19-11558	10/28/2019	07/22/2020	2020	268	Solar	Level 1
19-11559	10/28/2019	06/11/2020	2020	227	Solar	Level 1
19-11560	10/28/2019	02/19/2020	2020	114	Solar	Level 1
19-11561	10/28/2019	02/17/2020	2020	112	Solar	Level 1
19-11562	10/28/2019	01/23/2020	2020	87	Solar	Level 1
19-11563	10/28/2019	10/13/2020	2020	351	Solar	Level 1
19-11564	10/28/2019	03/19/2020	2020	143	Solar	Level 1
19-11565	10/28/2019	01/27/2020	2020	91	Solar	Level 1
19-11566	10/28/2019	08/10/2020	2020	287	Solar	Level 1
19-11568	10/28/2019	03/26/2020	2020	150	Solar	Level 1
19-11569	10/28/2019	01/17/2020	2020	81	Solar	Level 1
19-11570	10/28/2019	02/03/2020	2020	98	Solar	Level 1
19-11571	10/28/2019	02/03/2020	2020	98	Solar	Level 1
19-11572	10/28/2019	01/22/2020	2020	86	Solar	Level 1
19-11574	10/28/2019	03/17/2020	2020	141	Solar	Level 1
19-11575	10/28/2019	08/19/2020	2020	296	Solar	Level 1
19-11576	10/28/2019	01/30/2020	2020	94	Solar	Level 1
19-11579	10/28/2019	04/03/2020	2020	158	Solar	Level 1
19-11580	10/28/2019	02/18/2020	2020	113	Solar	Level 1
19-11581	10/28/2019	08/10/2020	2020	287	Solar	Level 1
19-11582	10/28/2019	05/15/2020	2020	200	Solar	Level 1
19-11590	10/28/2019	02/17/2020	2020	112	Solar	Level 1
19-11604	10/28/2019	05/18/2020	2020	203	Solar	Level 1
19-11605	10/28/2019	03/05/2020	2020	129	Solar	Level 1
19-11606	10/28/2019	06/12/2020	2020	228	Solar	Level 1
19-11607	10/28/2019	01/24/2020	2020	88	Solar	Level 4
19-11610	10/28/2019	08/09/2020	2020	286	Solar	Level 1
19-11612	10/28/2019	04/20/2020	2020	175	Solar	Level 1
19-11613	10/28/2019	01/30/2020	2020	94	Solar	Level 1

19-11614	10/28/2019	03/31/2020	2020	155	Solar	Level 1
19-11615	10/28/2019	03/17/2020	2020	141	Solar	Level 1
19-11616	10/28/2019	04/21/2020	2020	176	Solar	Level 1
19-11618	10/28/2019	02/11/2020	2020	106	Solar	Level 1
19-11619	10/28/2019	02/07/2020	2020	102	Solar	Level 1
19-11620	10/28/2019	01/24/2020	2020	88	Solar	Level 1
19-11622	10/28/2019	01/02/2020	2020	66	Solar	Level 1
19-11623	10/28/2019	01/27/2020	2020	91	Solar	Level 1
19-11625	10/28/2019	05/18/2020	2020	203	Solar	Level 1
19-11626	10/28/2019	02/28/2020	2020	123	Solar	Level 1
19-11627	10/28/2019	02/19/2020	2020	114	Solar	Level 1
19-11629	10/28/2019	01/12/2020	2020	76	Solar	Level 1
19-11632	10/28/2019	09/02/2020	2020	310	Solar	Level 1
19-11634	10/28/2019	03/17/2020	2020	141	Solar	Level 1
19-11635	10/28/2019	05/03/2020	2020	188	Solar	Level 1
19-11636	10/28/2019	02/14/2020	2020	109	Solar	Level 1
19-11637	10/28/2019	06/03/2020	2020	219	Solar	Level 1
19-11638	10/28/2019	02/17/2020	2020	112	Solar	Level 1
19-11639	10/28/2019	02/05/2020	2020	100	Solar	Level 1
19-11641	10/28/2019	01/23/2020	2020	87	Solar	Level 1
19-11642	10/28/2019	01/29/2020	2020	93	Solar	Level 1
19-11643	10/28/2019	02/19/2020	2020	114	Solar	Level 1
19-11645	10/29/2019	07/31/2020	2020	276	Solar	Level 1
19-11648	10/29/2019	09/20/2020	2020	327	Solar	Level 1
19-11649	10/29/2019	04/20/2020	2020	174	Solar	Level 1
19-11650	10/29/2019	09/10/2020	2020	317	Solar	Level 1
19-11651	10/29/2019	08/21/2020	2020	297	Solar	Level 1
19-11652	10/29/2019	09/14/2020	2020	321	Solar	Level 1
19-11654	10/29/2019	03/11/2020	2020	134	Solar	Level 1
19-11656	10/29/2019	03/11/2020	2020	134	Solar	Level 1
19-11657	10/29/2019	01/10/2020	2020	73	Solar	Level 1
19-11658	10/29/2019	08/20/2020	2020	296	Solar	Level 1
19-11659	10/29/2019	01/27/2020	2020	90	Solar	Level 1
19-11660	10/29/2019	01/27/2020	2020	90	Solar	Level 1
19-11661	10/29/2019	02/12/2020	2020	106	Solar	Level 1
19-11662	10/29/2019	01/30/2020	2020	93	Solar	Level 1
19-11666	10/29/2019	03/19/2020	2020	142	Solar	Level 1
19-11667	10/29/2019	11/09/2020	2020	377	Solar	Level 1
19-11668	10/29/2019	03/31/2020	2020	154	Solar	Level 1
19-11670	10/29/2019	02/13/2020	2020	107	Solar	Level 1
19-11672	10/29/2019	02/20/2020	2020	114	Solar	Level 1

19-11675	10/29/2019	02/27/2020	2020	121	Solar	Level 1
19-11676	10/29/2019	03/12/2020	2020	135	Solar	Level 1
19-11678	10/29/2019	02/25/2020	2020	119	Solar	Level 1
19-11681	10/29/2019	02/21/2020	2020	115	Solar	Level 1
19-11685	10/29/2019	08/19/2020	2020	295	Solar	Level 1
19-11686	10/29/2019	02/13/2020	2020	107	Solar	Level 1
19-11687	10/29/2019	06/29/2020	2020	244	Solar	Level 1
19-11688	10/29/2019	10/08/2020	2020	345	Solar	Level 1
19-11689	10/29/2019	02/13/2020	2020	107	Solar	Level 1
19-11691	10/29/2019	09/20/2020	2020	327	Solar	Level 1
19-11692	10/29/2019	03/02/2020	2020	125	Solar	Level 1
19-11693	10/29/2019	02/11/2020	2020	105	Solar	Level 1
19-11696	10/29/2019	06/12/2020	2020	227	Solar	Level 1
19-11697	10/29/2019	01/21/2020	2020	84	Solar	Level 1
19-11699	10/29/2019	03/11/2020	2020	134	Solar	Level 1
19-11700	10/29/2019	01/22/2020	2020	85	Solar	Level 1
19-11702	10/29/2019	04/21/2020	2020	175	Solar	Level 1
19-11703	10/29/2019	08/21/2020	2020	297	Solar	Level 1
19-11705	10/29/2019	02/27/2020	2020	121	Solar	Level 1
19-11707	10/29/2019	05/11/2020	2020	195	Solar	Level 1
19-11708	10/29/2019	05/26/2020	2020	210	Solar	Level 1
19-11710	10/29/2019	06/24/2020	2020	239	Solar	Level 1
19-11711	10/29/2019	02/04/2020	2020	98	Solar	Level 1
19-11712	10/29/2019	08/19/2020	2020	295	Solar	Level 1
19-11714	10/29/2019	01/30/2020	2020	93	Solar	Level 1
19-11715	10/29/2019	10/06/2020	2020	343	Solar	Level 1
19-11716	10/29/2019	01/10/2020	2020	73	Solar	Level 1
19-11718	10/29/2019	05/29/2020	2020	213	Solar	Level 1
19-11719	10/29/2019	03/12/2020	2020	135	Solar	Level 1
19-11721	10/29/2019	01/24/2020	2020	87	Solar	Level 1
19-11722	10/29/2019	03/19/2020	2020	142	Solar	Level 1
19-11723	10/29/2019	03/12/2020	2020	135	Solar	Level 1
19-11725	10/29/2019	02/21/2020	2020	115	Solar	Level 1
19-11726	10/29/2019	08/20/2020	2020	296	Solar	Level 1
19-11727	10/29/2019	05/20/2020	2020	204	Solar	Level 1
19-11728	10/29/2019	05/26/2020	2020	210	Solar	Level 1
19-11729	10/29/2019	02/13/2020	2020	107	Solar	Level 1
19-11730	10/29/2019	04/15/2020	2020	169	Solar	Level 1
19-11731	10/29/2019	04/27/2020	2020	181	Solar	Level 1
19-11732	10/29/2019	02/24/2020	2020	118	Solar	Level 1
19-11733	10/29/2019	05/29/2020	2020	213	Solar	Level 1

19-11735	10/29/2019	02/07/2020	2020	101	Solar	Level 1
19-11737	10/29/2019	03/09/2020	2020	132	Solar	Level 1
19-11738	10/29/2019	05/04/2020	2020	188	Solar	Level 1
19-11739	10/29/2019	01/17/2020	2020	80	Solar	Level 1
19-11740	10/30/2019	11/13/2020	2020	380	Solar	Level 1
19-11741	10/30/2019	01/16/2020	2020	78	Solar	Level 1
19-11742	10/30/2019	08/17/2020	2020	292	Storage	Level 1
19-11743	10/30/2019	05/18/2020	2020	201	Solar	Level 1
19-11744	10/30/2019	10/14/2020	2020	350	Solar	Level 2
19-11748	10/30/2019	02/28/2020	2020	121	Solar	Level 1
19-11749	10/30/2019	03/06/2020	2020	128	Solar	Level 1
19-11751	10/30/2019	01/30/2020	2020	92	Solar	Level 1
19-11754	10/30/2019	01/16/2020	2020	78	Solar	Level 1
19-11755	10/30/2019	01/29/2020	2020	91	Solar	Level 1
19-11756	10/30/2019	08/24/2020	2020	299	Solar	Level 1
19-11757	10/30/2019	01/29/2020	2020	91	Solar	Level 1
19-11758	10/30/2019	03/19/2020	2020	141	Solar	Level 1
19-11759	10/30/2019	02/06/2020	2020	99	Solar	Level 1
19-11760	10/30/2019	01/23/2020	2020	85	Solar	Level 1
19-11762	10/30/2019	03/23/2020	2020	145	Solar	Level 1
19-11764	10/30/2019	02/28/2020	2020	121	Solar	Level 1
19-11765	10/30/2019	08/06/2020	2020	281	Solar	Level 1
19-11766	10/30/2019	07/13/2020	2020	257	Solar	Level 1
19-11768	10/30/2019	07/20/2020	2020	264	Solar	Level 1
19-11770	10/30/2019	03/17/2020	2020	139	Solar	Level 1
19-11771	10/30/2019	04/13/2020	2020	166	Solar	Level 1
19-11774	10/30/2019	02/19/2020	2020	112	Solar	Level 1
19-11778	10/30/2019	01/17/2020	2020	79	Solar	Level 1
19-11779	10/30/2019	08/30/2020	2020	305	Solar	Level 1
19-11782	10/30/2019	03/09/2020	2020	131	Solar	Level 1
19-11784	10/30/2019	02/10/2020	2020	103	Solar	Level 1
19-11787	10/30/2019	02/25/2020	2020	118	Solar	Level 1
19-11789	10/30/2019	01/13/2020	2020	75	Solar	Level 1
19-11791	10/30/2019	11/08/2020	2020	375	Solar	Level 1
19-11792	10/30/2019	09/10/2020	2020	316	Solar	Level 1
19-11794	10/30/2019	04/07/2020	2020	160	Solar	Level 1
19-11795	10/30/2019	01/23/2020	2020	85	Solar	Level 1
19-11797	10/30/2019	01/14/2020	2020	76	Solar	Level 1
19-11798	10/30/2019	03/18/2020	2020	140	Solar	Level 1
19-11799	10/30/2019	06/03/2020	2020	217	Solar	Level 1
19-11800	10/30/2019	04/16/2020	2020	169	Solar	Level 1

19-11801	10/30/2019	08/19/2020	2020	294	Solar	Level 1
19-11802	10/30/2019	01/13/2020	2020	75	Solar	Level 1
19-11804	10/30/2019	03/09/2020	2020	131	Solar	Level 1
19-11805	10/30/2019	03/12/2020	2020	134	Solar	Level 1
19-11806	10/31/2019	01/15/2020	2020	76	Solar	Level 1
19-11809	10/31/2019	01/24/2020	2020	85	Solar	Level 1
19-11810	10/31/2019	01/24/2020	2020	85	Solar	Level 1
19-11812	10/31/2019	02/10/2020	2020	102	Solar	Level 1
19-11816	10/31/2019	02/24/2020	2020	116	Solar	Level 1
19-11817	10/31/2019	02/26/2020	2020	118	Solar	Level 1
19-11818	10/31/2019	01/02/2020	2020	63	Solar	Level 1
19-11821	10/31/2019	05/12/2020	2020	194	Solar	Level 1
19-11822	10/31/2019	01/10/2020	2020	71	Solar	Level 1
19-11825	10/31/2019	02/24/2020	2020	116	Solar	Level 1
19-11826	10/31/2019	01/12/2020	2020	73	Solar	Level 1
19-11827	10/31/2019	02/03/2020	2020	95	Solar	Level 1
19-11829	10/31/2019	03/24/2020	2020	145	Solar	Level 1
19-11830	10/31/2019	01/09/2020	2020	70	Solar	Level 1
19-11831	10/31/2019	01/24/2020	2020	85	Solar	Level 1
19-11834	10/31/2019	01/13/2020	2020	74	Solar	Level 1
19-11836	10/31/2019	03/17/2020	2020	138	Solar	Level 1
19-11837	10/31/2019	05/27/2020	2020	209	Solar	Level 1
19-11839	10/31/2019	08/20/2020	2020	294	Solar	Level 1
19-11840	10/31/2019	01/03/2020	2020	64	Solar	Level 1
19-11841	10/31/2019	04/29/2020	2020	181	Solar	Level 1
19-11842	10/31/2019	01/03/2020	2020	64	Solar	Level 1
19-11846	10/31/2019	09/04/2020	2020	309	Solar	Level 1
19-11847	10/31/2019	01/17/2020	2020	78	Solar	Level 1
19-11850	10/31/2019	04/27/2020	2020	179	Solar	Level 1
19-11851	10/31/2019	03/12/2020	2020	133	Solar	Level 1
19-11852	10/31/2019	01/17/2020	2020	78	Solar	Level 1
19-11853	10/31/2019	09/18/2020	2020	323	Solar	Level 1
19-11854	10/31/2019	01/27/2020	2020	88	Solar	Level 1
19-11856	10/31/2019	02/10/2020	2020	102	Solar	Level 1
19-11857	10/31/2019	06/19/2020	2020	232	Solar	Level 1
19-11859	10/31/2019	08/14/2020	2020	288	Solar	Level 1
19-11860	10/31/2019	08/30/2020	2020	304	Solar	Level 1
19-11862	10/31/2019	02/20/2020	2020	112	Solar	Level 1
19-11863	10/31/2019	05/18/2020	2020	200	Solar	Level 1
19-11864	10/31/2019	02/13/2020	2020	105	Solar	Level 1
19-11865	10/31/2019	08/14/2020	2020	288	Solar	Level 1

19-11866	10/31/2019	03/02/2020	2020	123	Solar	Level 1
19-11867	10/31/2019	04/16/2020	2020	168	Solar	Level 1
19-11868	10/31/2019	03/04/2020	2020	125	Solar	Level 1
19-11869	10/31/2019	02/12/2020	2020	104	Solar	Level 1
19-11870	10/31/2019	03/02/2020	2020	123	Solar	Level 1
19-11872	10/31/2019	07/22/2020	2020	265	Solar	Level 1
19-11874	10/31/2019	02/12/2020	2020	104	Solar	Level 1
19-11876	10/31/2019	01/07/2020	2020	68	Solar	Level 1
19-11877	10/31/2019	01/27/2020	2020	88	Solar	Level 1
19-11878	10/31/2019	03/17/2020	2020	138	Solar	Level 1
19-11879	10/31/2019	03/17/2020	2020	138	Solar	Level 1
19-11880	10/31/2019	10/07/2020	2020	342	Solar	Level 1
19-11882	10/31/2019	01/24/2020	2020	85	Solar	Level 1
19-11883	10/31/2019	08/27/2020	2020	301	Solar	Level 1
19-11886	10/31/2019	06/22/2020	2020	235	Solar	Level 1
19-11887	10/31/2019	05/06/2020	2020	188	Solar	Level 1
19-11889	10/31/2019	03/17/2020	2020	138	Solar	Level 1
19-11890	10/31/2019	01/13/2020	2020	74	Solar	Level 1
19-11897	11/01/2019	03/12/2020	2020	132	Solar	Level 1
19-11898	11/01/2019	08/29/2020	2020	302	Solar	Level 1
19-11902	11/01/2019	11/25/2020	2020	390	Solar	Level 1
19-11906	11/01/2019	01/23/2020	2020	83	Solar	Level 1
19-11907	11/01/2019	06/04/2020	2020	216	Solar	Level 1
19-11908	11/01/2019	01/14/2020	2020	74	Solar	Level 1
19-11909	11/01/2019	01/28/2020	2020	88	Solar	Level 1
19-11911	11/01/2019	02/17/2020	2020	108	Solar	Level 1
19-11912	11/01/2019	02/07/2020	2020	98	Solar	Level 1
19-11913	11/01/2019	01/07/2020	2020	67	Solar	Level 1
19-11915	11/01/2019	03/03/2020	2020	123	Solar	Level 1
19-11916	11/01/2019	02/27/2020	2020	118	Solar	Level 1
19-11917	11/01/2019	01/23/2020	2020	83	Solar	Level 1
19-11919	11/01/2019	03/17/2020	2020	137	Solar	Level 1
19-11920	11/01/2019	01/08/2020	2020	68	Solar	Level 1
19-11921	11/01/2019	01/10/2020	2020	70	Solar	Level 1
19-11924	11/01/2019	04/20/2020	2020	171	Solar	Level 1
19-11928	11/01/2019	01/09/2020	2020	69	Solar	Level 1
19-11929	11/01/2019	02/06/2020	2020	97	Solar	Level 1
19-11932	11/01/2019	05/06/2020	2020	187	Solar	Level 1
19-11933	11/01/2019	05/21/2020	2020	202	Solar	Level 1
19-11937	11/01/2019	02/17/2020	2020	108	Solar	Level 1
19-11938	11/01/2019	02/25/2020	2020	116	Solar	Level 1

19-11940	11/01/2019	07/28/2020	2020	270	Solar	Level 1
19-11941	11/01/2019	03/18/2020	2020	138	Solar	Level 1
19-11942	11/01/2019	03/31/2020	2020	151	Solar	Level 1
19-11943	11/01/2019	01/09/2020	2020	69	Solar	Level 1
19-11944	11/01/2019	02/03/2020	2020	94	Solar	Level 1
19-11945	11/01/2019	02/17/2020	2020	108	Solar	Level 1
19-11948	11/02/2019	08/29/2020	2020	301	Solar	Level 1
19-11950	11/03/2019	01/16/2020	2020	74	Solar	Level 1
19-11953	11/04/2019	04/01/2020	2020	149	Solar	Level 1
19-11956	11/04/2019	09/28/2020	2020	329	Solar	Level 1
19-11957	11/04/2019	02/19/2020	2020	107	Solar	Level 1
19-11960	11/04/2019	01/27/2020	2020	84	Solar	Level 1
19-11962	11/04/2019	04/22/2020	2020	170	Solar	Level 1
19-11964	11/04/2019	01/22/2020	2020	79	Solar	Level 1
19-11965	11/04/2019	11/16/2020	2020	378	Solar	Level 1
19-11966	11/04/2019	01/16/2020	2020	73	Solar	Level 1
19-11967	11/04/2019	10/13/2020	2020	344	Solar	Level 2
19-11968	11/04/2019	10/07/2020	2020	338	Solar	Level 1
19-11969	11/04/2019	01/03/2020	2020	60	Solar	Level 1
19-11970	11/04/2019	01/16/2020	2020	73	Solar	Level 1
19-11971	11/04/2019	03/03/2020	2020	120	Solar	Level 1
19-11972	11/04/2019	09/24/2020	2020	325	Solar	Level 2
19-11973	11/04/2019	02/04/2020	2020	92	Solar	Level 1
19-11974	11/04/2019	01/24/2020	2020	81	Solar	Level 1
19-11975	11/04/2019	02/05/2020	2020	93	Solar	Level 1
19-11978	11/04/2019	10/20/2020	2020	351	Solar	Level 1
19-11979	11/04/2019	10/09/2020	2020	340	Solar	Level 1
19-11980	11/04/2019	06/05/2020	2020	214	Solar	Level 1
19-11981	11/04/2019	03/17/2020	2020	134	Solar	Level 1
19-11983	11/04/2019	11/16/2020	2020	378	Solar	Level 1
19-11984	11/04/2019	06/01/2020	2020	210	Solar	Level 1
19-11987	11/04/2019	03/13/2020	2020	130	Solar	Level 1
19-11989	11/04/2019	08/04/2020	2020	274	Solar	Level 1
19-11991	11/04/2019	03/03/2020	2020	120	Solar	Level 1
19-11993	11/04/2019	03/25/2020	2020	142	Solar	Level 1
19-11994	11/04/2019	03/02/2020	2020	119	Solar	Level 1
19-11995	11/04/2019	03/17/2020	2020	134	Solar	Level 1
19-11997	11/04/2019	03/17/2020	2020	134	Solar	Level 1
19-11998	11/04/2019	02/06/2020	2020	94	Solar	Level 1
19-11999	11/04/2019	02/10/2020	2020	98	Solar	Level 1
19-12001	11/04/2019	09/28/2020	2020	329	Solar	Level 1

19-12002	11/04/2019	02/21/2020	2020	109	Solar	Level 1
19-12004	11/04/2019	07/28/2020	2020	267	Solar	Level 1
19-12005	11/04/2019	07/23/2020	2020	262	Solar	Level 1
19-12006	11/04/2019	02/27/2020	2020	115	Solar	Level 1
19-12007	11/04/2019	01/30/2020	2020	87	Solar	Level 1
19-12008	11/04/2019	02/18/2020	2020	106	Solar	Level 1
19-12009	11/04/2019	01/16/2020	2020	73	Solar	Level 1
19-12010	11/04/2019	02/07/2020	2020	95	Solar	Level 1
19-12013	11/04/2019	06/29/2020	2020	238	Solar	Level 1
19-12014	11/04/2019	01/27/2020	2020	84	Solar	Level 1
19-12016	11/04/2019	01/14/2020	2020	71	Solar	Level 1
19-12018	11/05/2019	03/17/2020	2020	133	Solar	Level 1
19-12020	11/05/2019	06/22/2020	2020	230	Solar	Level 1
19-12023	11/05/2019	01/14/2020	2020	70	Solar	Level 1
19-12025	11/05/2019	10/09/2020	2020	339	Solar	Level 1
19-12028	11/05/2019	02/28/2020	2020	115	Solar	Level 1
19-12031	11/05/2019	07/22/2020	2020	260	Solar	Level 1
19-12032	11/05/2019	06/01/2020	2020	209	Solar	Level 1
19-12035	11/05/2019	03/02/2020	2020	118	Solar	Level 1
19-12037	11/05/2019	03/06/2020	2020	122	Solar	Level 1
19-12038	11/05/2019	02/21/2020	2020	108	Solar	Level 1
19-12040	11/05/2019	03/19/2020	2020	135	Solar	Level 1
19-12041	11/05/2019	03/24/2020	2020	140	Solar	Level 1
19-12044	11/05/2019	01/16/2020	2020	72	Solar	Level 4
19-12045	11/05/2019	04/27/2020	2020	174	Solar	Level 1
19-12046	11/05/2019	02/25/2020	2020	112	Solar	Level 1
19-12047	11/05/2019	09/28/2020	2020	328	Solar	Level 1
19-12048	11/05/2019	03/17/2020	2020	133	Solar	Level 1
19-12049	11/05/2019	09/23/2020	2020	323	Solar	Level 1
19-12050	11/05/2019	06/23/2020	2020	231	Solar	Level 1
19-12053	11/05/2019	02/03/2020	2020	90	Solar	Level 1
19-12055	11/05/2019	06/03/2020	2020	211	Solar	Level 1
19-12057	11/05/2019	01/24/2020	2020	80	Solar	Level 2
19-12058	11/05/2019	04/02/2020	2020	149	Solar	Level 1
19-12060	11/05/2019	03/26/2020	2020	142	Solar	Level 1
19-12061	11/05/2019	02/07/2020	2020	94	Solar	Level 1
19-12063	11/05/2019	07/31/2020	2020	269	Solar	Level 1
19-12065	11/05/2019	09/24/2020	2020	324	Solar	Level 1
19-12066	11/05/2019	05/15/2020	2020	192	Solar	Level 1
19-12068	11/05/2019	01/22/2020	2020	78	Solar	Level 1
19-12069	11/05/2019	01/27/2020	2020	83	Solar	Level 1

19-12070	11/05/2019	01/27/2020	2020	83	Solar	Level 1
19-12071	11/05/2019	03/14/2020	2020	130	Solar	Level 1
19-12073	11/05/2019	03/17/2020	2020	133	Solar	Level 1
19-12077	11/06/2019	01/29/2020	2020	84	Solar	Level 1
19-12078	11/06/2019	05/21/2020	2020	197	Solar	Level 1
19-12079	11/06/2019	01/08/2020	2020	63	Solar	Level 1
19-12080	11/06/2019	02/03/2020	2020	89	Solar	Level 1
19-12081	11/06/2019	06/03/2020	2020	210	Solar	Level 1
19-12082	11/06/2019	02/03/2020	2020	89	Solar	Level 1
19-12084	11/06/2019	08/20/2020	2020	288	Solar	Level 2
19-12090	11/06/2019	03/13/2020	2020	128	Solar	Level 1
19-12092	11/06/2019	05/19/2020	2020	195	Solar	Level 1
19-12093	11/06/2019	06/19/2020	2020	226	Solar	Level 1
19-12094	11/06/2019	06/03/2020	2020	210	Solar	Level 1
19-12095	11/06/2019	03/06/2020	2020	121	Solar	Level 1
19-12097	11/06/2019	08/25/2020	2020	293	Solar	Level 1
19-12098	11/06/2019	05/08/2020	2020	184	Solar	Level 1
19-12101	11/06/2019	02/11/2020	2020	97	Solar	Level 1
19-12102	11/06/2019	01/14/2020	2020	69	Solar	Level 1
19-12103	11/06/2019	01/13/2020	2020	68	Solar	Level 1
19-12105	11/06/2019	01/17/2020	2020	72	Solar	Level 1
19-12107	11/06/2019	03/02/2020	2020	117	Solar	Level 1
19-12108	11/06/2019	02/25/2020	2020	111	Solar	Level 1
19-12109	11/06/2019	02/24/2020	2020	110	Solar	Level 1
19-12110	11/06/2019	02/17/2020	2020	103	Solar	Level 1
19-12111	11/06/2019	06/14/2020	2020	221	Solar	Level 1
19-12112	11/06/2019	05/08/2020	2020	184	Solar	Level 1
19-12114	11/06/2019	05/04/2020	2020	180	Solar	Level 1
19-12116	11/06/2019	05/11/2020	2020	187	Solar	Level 1
19-12117	11/06/2019	03/19/2020	2020	134	Solar	Level 1
19-12118	11/06/2019	02/03/2020	2020	89	Solar	Level 1
19-12119	11/06/2019	04/23/2020	2020	169	Solar	Level 1
19-12126	11/06/2019	04/01/2020	2020	147	Solar	Level 1
19-12128	11/06/2019	01/29/2020	2020	84	Solar	Level 1
19-12131	11/06/2019	01/24/2020	2020	79	Solar	Level 1
19-12132	11/06/2019	01/10/2020	2020	65	Solar	Level 1
19-12133	11/06/2019	02/19/2020	2020	105	Solar	Level 1
19-12134	11/06/2019	06/14/2020	2020	221	Solar	Level 1
19-12135	11/06/2019	02/07/2020	2020	93	Solar	Level 1
19-12138	11/06/2019	01/29/2020	2020	84	Solar	Level 1
19-12139	11/06/2019	02/26/2020	2020	112	Solar	Level 1

19-12141	11/07/2019	06/29/2020	2020	235	Solar	Level 1
19-12142	11/07/2019	06/30/2020	2020	236	Solar	Level 1
19-12143	11/07/2019	08/21/2020	2020	288	Solar	Level 1
19-12144	11/07/2019	05/06/2020	2020	181	Solar	Level 1
19-12146	11/07/2019	01/31/2020	2020	85	Solar	Level 1
19-12147	11/07/2019	02/07/2020	2020	92	Solar	Level 1
19-12149	11/07/2019	02/25/2020	2020	110	Solar	Level 1
19-12150	11/07/2019	09/18/2020	2020	316	Solar	Level 1
19-12151	11/07/2019	03/12/2020	2020	126	Solar	Level 1
19-12154	11/07/2019	04/23/2020	2020	168	Solar	Level 1
19-12155	11/07/2019	01/14/2020	2020	68	Solar	Level 1
19-12157	11/07/2019	01/24/2020	2020	78	Solar	Level 1
19-12159	11/07/2019	04/13/2020	2020	158	Solar	Level 1
19-12161	11/07/2019	02/04/2020	2020	89	Solar	Level 1
19-12162	11/07/2019	03/11/2020	2020	125	Solar	Level 1
19-12163	11/07/2019	02/13/2020	2020	98	Solar	Level 1
19-12168	11/07/2019	06/01/2020	2020	207	Solar	Level 1
19-12170	11/07/2019	02/11/2020	2020	96	Solar	Level 1
19-12171	11/07/2019	01/07/2020	2020	61	Solar	Level 1
19-12173	11/07/2019	05/11/2020	2020	186	Solar	Level 1
19-12174	11/07/2019	01/17/2020	2020	71	Solar	Level 1
19-12177	11/07/2019	01/24/2020	2020	78	Solar	Level 1
19-12179	11/07/2019	08/10/2020	2020	277	Solar	Level 1
19-12180	11/07/2019	01/24/2020	2020	78	Solar	Level 1
19-12182	11/07/2019	01/29/2020	2020	83	Solar	Level 1
19-12183	11/07/2019	01/17/2020	2020	71	Solar	Level 1
19-12184	11/07/2019	03/04/2020	2020	118	Solar	Level 1
19-12185	11/07/2019	02/19/2020	2020	104	Solar	Level 1
19-12186	11/07/2019	01/06/2020	2020	60	Solar	Level 1
19-12187	11/07/2019	06/12/2020	2020	218	Solar	Level 1
19-12188	11/07/2019	01/27/2020	2020	81	Solar	Level 1
19-12189	11/07/2019	03/12/2020	2020	126	Solar	Level 1
19-12190	11/07/2019	03/30/2020	2020	144	Solar	Level 1
19-12191	11/07/2019	02/19/2020	2020	104	Solar	Level 1
19-12194	11/07/2019	01/09/2020	2020	63	Solar	Level 1
19-12195	11/07/2019	01/07/2020	2020	61	Solar	Level 1
19-12196	11/07/2019	01/31/2020	2020	85	Solar	Level 1
19-12197	11/07/2019	03/17/2020	2020	131	Solar	Level 1
19-12200	11/07/2019	03/10/2020	2020	124	Solar	Level 1
19-12201	11/07/2019	03/12/2020	2020	126	Solar	Level 1
19-12203	11/07/2019	02/27/2020	2020	112	Solar	Level 1

19-12204	11/07/2019	04/13/2020	2020	158	Solar	Level 1
19-12205	11/07/2019	09/28/2020	2020	326	Solar	Level 1
19-12206	11/07/2019	10/21/2020	2020	349	Solar	Level 1
19-12208	11/07/2019	02/26/2020	2020	111	Solar	Level 1
19-12209	11/07/2019	03/04/2020	2020	118	Solar	Level 1
19-12211	11/07/2019	02/06/2020	2020	91	Solar	Level 1
19-12216	11/08/2019	02/05/2020	2020	89	Solar	Level 1
19-12220	11/08/2019	04/21/2020	2020	165	Solar	Level 1
19-12221	11/08/2019	06/23/2020	2020	228	Solar	Level 1
19-12222	11/08/2019	03/17/2020	2020	130	Solar	Level 1
19-12224	11/08/2019	03/04/2020	2020	117	Solar	Level 1
19-12225	11/08/2019	07/23/2020	2020	258	Solar	Level 1
19-12226	11/08/2019	06/04/2020	2020	209	Solar	Level 1
19-12227	11/08/2019	04/08/2020	2020	152	Solar	Level 1
19-12230	11/08/2019	09/02/2020	2020	299	Solar	Level 1
19-12231	11/08/2019	05/11/2020	2020	185	Solar	Level 1
19-12234	11/08/2019	07/07/2020	2020	242	Solar	Level 1
19-12235	11/08/2019	04/07/2020	2020	151	Solar	Level 1
19-12236	11/08/2019	08/26/2020	2020	292	Solar	Level 1
19-12238	11/08/2019	06/01/2020	2020	206	Solar	Level 1
19-12239	11/08/2019	01/27/2020	2020	80	Solar	Level 1
19-12240	11/08/2019	01/21/2020	2020	74	Solar	Level 1
19-12241	11/08/2019	06/24/2020	2020	229	Solar	Level 1
19-12242	11/08/2019	07/22/2020	2020	257	Solar	Level 1
19-12244	11/08/2019	05/28/2020	2020	202	Solar	Level 1
19-12247	11/08/2019	02/06/2020	2020	90	Solar	Level 1
19-12254	11/08/2019	02/27/2020	2020	111	Solar	Level 1
19-12255	11/08/2019	06/29/2020	2020	234	Solar	Level 1
19-12262	11/08/2019	08/21/2020	2020	287	Solar	Level 1
19-12263	11/08/2019	02/21/2020	2020	105	Solar	Level 1
19-12265	11/08/2019	01/28/2020	2020	81	Solar	Level 1
19-12267	11/08/2019	03/03/2020	2020	116	Solar	Level 1
19-12269	11/08/2019	03/17/2020	2020	130	Solar	Level 1
19-12270	11/08/2019	06/18/2020	2020	223	Solar	Level 1
19-12271	11/08/2019	08/19/2020	2020	285	Solar	Level 1
19-12272	11/08/2019	06/03/2020	2020	208	Solar	Level 1
19-12274	11/08/2019	03/19/2020	2020	132	Solar	Level 1
19-12275	11/08/2019	04/02/2020	2020	146	Solar	Level 1
19-12276	11/08/2019	01/13/2020	2020	66	Solar	Level 1
19-12280	11/08/2019	03/31/2020	2020	144	Solar	Level 1
19-12282	11/11/2019	09/18/2020	2020	312	Solar	Level 1

19-12284	11/11/2019	05/11/2020	2020	182	Solar	Level 1
19-12285	11/11/2019	02/14/2020	2020	95	Solar	Level 1
19-12287	11/11/2019	03/04/2020	2020	114	Solar	Level 1
19-12289	11/11/2019	06/29/2020	2020	231	Storage	Level 1
19-12290	11/11/2019	07/21/2020	2020	253	Solar	Level 1
19-12292	11/11/2019	06/29/2020	2020	231	Solar	Level 1
19-12293	11/11/2019	01/16/2020	2020	66	Solar	Level 1
19-12297	11/11/2019	04/13/2020	2020	154	Solar	Level 1
19-12298	11/11/2019	06/12/2020	2020	214	Solar	Level 1
19-12300	11/11/2019	02/07/2020	2020	88	Solar	Level 1
19-12301	11/11/2019	01/31/2020	2020	81	Solar	Level 1
19-12302	11/11/2019	02/11/2020	2020	92	Solar	Level 1
19-12303	11/11/2019	04/29/2020	2020	170	Solar	Level 1
19-12307	11/11/2019	09/23/2020	2020	317	Solar	Level 1
19-12308	11/11/2019	06/30/2020	2020	232	Solar	Level 1
19-12309	11/11/2019	02/10/2020	2020	91	Solar	Level 1
19-12310	11/11/2019	04/02/2020	2020	143	Solar	Level 1
19-12311	11/11/2019	01/29/2020	2020	79	Solar	Level 1
19-12312	11/11/2019	01/16/2020	2020	66	Solar	Level 1
19-12313	11/11/2019	03/18/2020	2020	128	Solar	Level 1
19-12314	11/11/2019	05/07/2020	2020	178	Solar	Level 1
19-12315	11/11/2019	02/26/2020	2020	107	Solar	Level 1
19-12316	11/11/2019	01/16/2020	2020	66	Solar	Level 1
19-12319	11/11/2019	06/11/2020	2020	213	Solar	Level 1
19-12324	11/11/2019	06/11/2020	2020	213	Solar	Level 1
19-12326	11/11/2019	01/09/2020	2020	59	Solar	Level 1
19-12327	11/11/2019	08/10/2020	2020	273	Solar	Level 1
19-12329	11/11/2019	02/20/2020	2020	101	Solar	Level 1
19-12330	11/11/2019	06/03/2020	2020	205	Solar	Level 1
19-12331	11/11/2019	02/24/2020	2020	105	Solar	Level 1
19-12333	11/11/2019	01/12/2020	2020	62	Solar	Level 1
19-12336	11/11/2019	01/31/2020	2020	81	Solar	Level 1
19-12338	11/11/2019	03/19/2020	2020	129	Solar	Level 1
19-12339	11/11/2019	02/19/2020	2020	100	Solar	Level 1
19-12343	11/11/2019	01/09/2020	2020	59	Solar	Level 1
19-12344	11/11/2019	04/23/2020	2020	164	Solar	Level 1
19-12345	11/11/2019	06/12/2020	2020	214	Solar	Level 1
19-12346	11/11/2019	03/08/2020	2020	118	Solar	Level 1
19-12347	11/11/2019	03/06/2020	2020	116	Solar	Level 1
19-12348	11/11/2019	02/03/2020	2020	84	Solar	Level 1
19-12350	11/12/2019	02/04/2020	2020	84	Solar	Level 1

19-12351	11/12/2019	05/15/2020	2020	185	Solar	Level 1
19-12352	11/12/2019	03/03/2020	2020	112	Solar	Level 1
19-12353	11/12/2019	06/10/2020	2020	211	Solar	Level 1
19-12354	11/12/2019	10/25/2020	2020	348	Solar	Level 1
19-12356	11/12/2019	02/05/2020	2020	85	Solar	Level 1
19-12357	11/12/2019	02/03/2020	2020	83	Solar	Level 1
19-12358	11/12/2019	01/15/2020	2020	64	Solar	Level 1
19-12360	11/12/2019	04/16/2020	2020	156	Solar	Level 1
19-12361	11/12/2019	04/27/2020	2020	167	Solar	Level 1
19-12366	11/12/2019	07/22/2020	2020	253	Solar	Level 1
19-12367	11/12/2019	05/20/2020	2020	190	Solar	Level 1
19-12370	11/12/2019	03/19/2020	2020	128	Solar	Level 1
19-12371	11/12/2019	01/13/2020	2020	62	Solar	Level 1
19-12376	11/12/2019	04/30/2020	2020	170	Solar	Level 1
19-12377	11/12/2019	05/11/2020	2020	181	Solar	Level 1
19-12379	11/12/2019	03/04/2020	2020	113	Solar	Level 1
19-12380	11/12/2019	02/19/2020	2020	99	Solar	Level 1
19-12382	11/12/2019	01/09/2020	2020	58	Solar	Level 1
19-12384	11/12/2019	06/12/2020	2020	213	Solar	Level 1
19-12385	11/12/2019	09/10/2020	2020	303	Solar	Level 1
19-12387	11/12/2019	05/07/2020	2020	177	Solar	Level 1
19-12388	11/12/2019	09/11/2020	2020	304	Solar	Level 1
19-12389	11/12/2019	03/10/2020	2020	119	Solar	Level 1
19-12390	11/12/2019	03/17/2020	2020	126	Solar	Level 1
19-12391	11/12/2019	02/10/2020	2020	90	Solar	Level 1
19-12392	11/12/2019	01/31/2020	2020	80	Solar	Level 1
19-12394	11/12/2019	08/19/2020	2020	281	Solar	Level 1
19-12395	11/12/2019	02/21/2020	2020	101	Solar	Level 1
19-12396	11/12/2019	04/27/2020	2020	167	Solar	Level 1
19-12397	11/12/2019	04/07/2020	2020	147	Solar	Level 1
19-12398	11/12/2019	06/12/2020	2020	213	Solar	Level 1
19-12399	11/12/2019	03/17/2020	2020	126	Solar	Level 1
19-12401	11/12/2019	04/13/2020	2020	153	Solar	Level 1
19-12402	11/12/2019	03/24/2020	2020	133	Solar	Level 1
19-12403	11/12/2019	08/14/2020	2020	276	Solar	Level 1
19-12404	11/12/2019	03/05/2020	2020	114	Solar	Level 1
19-12405	11/12/2019	04/01/2020	2020	141	Solar	Level 1
19-12406	11/12/2019	02/03/2020	2020	83	Solar	Level 1
19-12407	11/12/2019	03/27/2020	2020	136	Solar	Level 1
19-12409	11/12/2019	01/09/2020	2020	58	Solar	Level 1
19-12411	11/12/2019	01/28/2020	2020	77	Solar	Level 1

19-12412	11/12/2019	03/24/2020	2020	133	Solar	Level 1
19-12413	11/12/2019	05/15/2020	2020	185	Solar	Level 1
19-12414	11/12/2019	03/17/2020	2020	126	Solar	Level 1
19-12415	11/12/2019	06/02/2020	2020	203	Solar	Level 1
19-12416	11/12/2019	02/07/2020	2020	87	Solar	Level 1
19-12417	11/12/2019	05/28/2020	2020	198	Solar	Level 1
19-12418	11/12/2019	01/30/2020	2020	79	Solar	Level 1
19-12419	11/12/2019	09/05/2020	2020	298	Solar	Level 1
19-12421	11/12/2019	03/05/2020	2020	114	Solar	Level 1
19-12422	11/12/2019	01/24/2020	2020	73	Solar	Level 1
19-12423	11/12/2019	09/22/2020	2020	315	Solar	Level 1
19-12424	11/13/2019	02/13/2020	2020	92	Solar	Level 1
19-12425	11/13/2019	07/14/2020	2020	244	Solar	Level 1
19-12427	11/13/2019	05/18/2020	2020	187	Solar	Level 1
19-12428	11/13/2019	03/12/2020	2020	120	Solar	Level 1
19-12431	11/13/2019	03/06/2020	2020	114	Solar	Level 1
19-12432	11/13/2019	03/23/2020	2020	131	Solar	Level 1
19-12433	11/13/2019	03/06/2020	2020	114	Solar	Level 1
19-12434	11/13/2019	01/06/2020	2020	54	Solar	Level 1
19-12438	11/13/2019	01/17/2020	2020	65	Solar	Level 1
19-12440	11/13/2019	09/28/2020	2020	320	Solar	Level 1
19-12441	11/13/2019	02/05/2020	2020	84	Solar	Level 1
19-12443	11/13/2019	03/19/2020	2020	127	Solar	Level 1
19-12445	11/13/2019	01/16/2020	2020	64	Solar	Level 1
19-12446	11/13/2019	06/04/2020	2020	204	Solar	Level 1
19-12447	11/13/2019	02/28/2020	2020	107	Solar	Level 1
19-12449	11/13/2019	03/17/2020	2020	125	Solar	Level 1
19-12450	11/13/2019	03/23/2020	2020	131	Solar	Level 1
19-12453	11/13/2019	06/08/2020	2020	208	Solar	Level 1
19-12455	11/13/2019	02/26/2020	2020	105	Solar	Level 1
19-12456	11/13/2019	06/01/2020	2020	201	Solar	Level 1
19-12458	11/13/2019	02/03/2020	2020	82	Solar	Level 1
19-12459	11/13/2019	03/16/2020	2020	124	Solar	Level 1
19-12460	11/13/2019	02/19/2020	2020	98	Solar	Level 1
19-12462	11/13/2019	06/30/2020	2020	230	Solar	Level 1
19-12464	11/13/2019	02/07/2020	2020	86	Solar	Level 1
19-12466	11/13/2019	04/07/2020	2020	146	Solar	Level 1
19-12468	11/13/2019	03/19/2020	2020	127	Solar	Level 1
19-12469	11/13/2019	06/12/2020	2020	212	Solar	Level 1
19-12470	11/13/2019	03/10/2020	2020	118	Solar	Level 1
19-12473	11/13/2019	03/05/2020	2020	113	Solar	Level 1

19-12475	11/13/2019	02/13/2020	2020	92	Solar	Level 1
19-12480	11/13/2019	05/19/2020	2020	188	Solar	Level 1
19-12481	11/13/2019	05/18/2020	2020	187	Solar	Level 1
19-12483	11/14/2019	01/28/2020	2020	75	Solar	Level 2
19-12485	11/14/2019	04/23/2020	2020	161	Solar	Level 1
19-12488	11/14/2019	01/29/2020	2020	76	Solar	Level 1
19-12489	11/14/2019	02/19/2020	2020	97	Solar	Level 1
19-12491	11/14/2019	01/29/2020	2020	76	Solar	Level 1
19-12492	11/14/2019	02/27/2020	2020	105	Solar	Level 1
19-12493	11/14/2019	08/10/2020	2020	270	Solar	Level 1
19-12495	11/14/2019	05/13/2020	2020	181	Solar	Level 1
19-12496	11/14/2019	04/27/2020	2020	165	Solar	Level 1
19-12498	11/14/2019	01/21/2020	2020	68	Solar	Level 1
19-12503	11/14/2019	02/28/2020	2020	106	Solar	Level 1
19-12504	11/14/2019	01/14/2020	2020	61	Solar	Level 1
19-12506	11/14/2019	08/15/2020	2020	275	Solar	Level 1
19-12507	11/14/2019	02/19/2020	2020	97	Solar	Level 1
19-12510	11/14/2019	01/28/2020	2020	75	Solar	Level 1
19-12511	11/14/2019	03/17/2020	2020	124	Solar	Level 1
19-12512	11/14/2019	04/17/2020	2020	155	Solar	Level 1
19-12514	11/14/2019	03/30/2020	2020	137	Solar	Level 1
19-12516	11/14/2019	02/11/2020	2020	89	Solar	Level 1
19-12518	11/14/2019	03/11/2020	2020	118	Solar	Level 1
19-12519	11/14/2019	01/29/2020	2020	76	Solar	Level 1
19-12520	11/14/2019	05/15/2020	2020	183	Solar	Level 1
19-12521	11/14/2019	02/19/2020	2020	97	Solar	Level 1
19-12523	11/14/2019	05/21/2020	2020	189	Solar	Level 1
19-12525	11/14/2019	01/10/2020	2020	57	Solar	Level 1
19-12526	11/14/2019	06/24/2020	2020	223	Solar	Level 1
19-12527	11/14/2019	03/20/2020	2020	127	Solar	Level 1
19-12531	11/15/2019	01/16/2020	2020	62	Solar	Level 1
19-12532	11/15/2019	01/27/2020	2020	73	Solar	Level 1
19-12535	11/15/2019	01/24/2020	2020	70	Solar	Level 1
19-12536	11/15/2019	01/22/2020	2020	68	Solar	Level 1
19-12537	11/15/2019	09/30/2020	2020	320	Solar	Level 1
19-12540	11/15/2019	04/13/2020	2020	150	Solar	Level 1
19-12541	11/15/2019	08/19/2020	2020	278	Solar	Level 1
19-12542	11/15/2019	07/20/2020	2020	248	Solar	Level 1
19-12543	11/15/2019	06/05/2020	2020	203	Solar	Level 1
19-12545	11/15/2019	11/06/2020	2020	357	Solar	Level 1
19-12546	11/15/2019	02/13/2020	2020	90	Solar	Level 1

19-12547	11/15/2019	11/25/2020	2020	376	Solar	Level 1
19-12549	11/15/2019	08/04/2020	2020	263	Solar	Level 2
19-12550	11/15/2019	02/20/2020	2020	97	Solar	Level 1
19-12551	11/15/2019	01/10/2020	2020	56	Solar	Level 1
19-12552	11/15/2019	07/31/2020	2020	259	Solar	Level 1
19-12556	11/15/2019	01/27/2020	2020	73	Solar	Level 1
19-12558	11/15/2019	01/13/2020	2020	59	Solar	Level 1
19-12559	11/15/2019	09/18/2020	2020	308	Solar	Level 1
19-12561	11/15/2019	09/23/2020	2020	313	Solar	Level 1
19-12562	11/15/2019	11/04/2020	2020	355	Solar	Level 1
19-12563	11/15/2019	12/16/2020	2020	397	Solar	Level 1
19-12565	11/15/2019	02/25/2020	2020	102	Solar	Level 1
19-12566	11/15/2019	03/09/2020	2020	115	Solar	Level 1
19-12567	11/15/2019	08/21/2020	2020	280	Solar	Level 1
19-12568	11/15/2019	05/04/2020	2020	171	Solar	Level 1
19-12569	11/15/2019	02/03/2020	2020	80	Solar	Level 1
19-12570	11/15/2019	03/17/2020	2020	123	Solar	Level 1
19-12571	11/15/2019	04/15/2020	2020	152	Solar	Level 1
19-12572	11/15/2019	02/13/2020	2020	90	Solar	Level 1
19-12573	11/15/2019	01/28/2020	2020	74	Solar	Level 1
19-12575	11/15/2019	02/17/2020	2020	94	Solar	Level 1
19-12576	11/15/2019	03/04/2020	2020	110	Solar	Level 1
19-12577	11/15/2019	08/30/2020	2020	289	Solar	Level 1
19-12578	11/15/2019	08/19/2020	2020	278	Solar	Level 1
19-12580	11/15/2019	01/09/2020	2020	55	Solar	Level 1
19-12582	11/15/2019	03/31/2020	2020	137	Solar	Level 1
19-12584	11/15/2019	06/03/2020	2020	201	Solar	Level 1
19-12585	11/15/2019	03/10/2020	2020	116	Solar	Level 1
19-12587	11/15/2019	07/30/2020	2020	258	Solar	Level 1
19-12589	11/15/2019	04/20/2020	2020	157	Solar	Level 1
19-12591	11/15/2019	01/16/2020	2020	62	Solar	Level 1
19-12594	11/16/2019	03/02/2020	2020	107	Solar	Level 1
19-12595	11/16/2019	05/11/2020	2020	177	Solar	Level 1
19-12596	11/16/2019	06/16/2020	2020	213	Solar	Level 1
19-12598	11/18/2019	10/15/2020	2020	332	Solar	Level 1
19-12599	11/18/2019	01/02/2020	2020	45	Solar	Level 1
19-12600	11/18/2019	06/11/2020	2020	206	Solar	Level 1
19-12601	11/18/2019	07/07/2020	2020	232	Solar	Level 1
19-12603	11/18/2019	02/06/2020	2020	80	Solar	Level 1
19-12604	11/18/2019	01/27/2020	2020	70	Solar	Level 1
19-12605	11/18/2019	01/27/2020	2020	70	Solar	Level 1

19-12607	11/18/2019	02/04/2020	2020	78	Solar	Level 1
19-12610	11/18/2019	08/21/2020	2020	277	Solar	Level 1
19-12613	11/18/2019	02/07/2020	2020	81	Solar	Level 1
19-12614	11/18/2019	03/12/2020	2020	115	Solar	Level 1
19-12615	11/18/2019	05/11/2020	2020	175	Solar	Level 1
19-12616	11/18/2019	02/25/2020	2020	99	Solar	Level 1
19-12617	11/18/2019	02/25/2020	2020	99	Solar	Level 1
19-12619	11/18/2019	06/03/2020	2020	198	Solar	Level 1
19-12622	11/18/2019	03/20/2020	2020	123	Solar	Level 1
19-12623	11/18/2019	07/22/2020	2020	247	Solar	Level 1
19-12624	11/18/2019	02/27/2020	2020	101	Solar	Level 1
19-12625	11/18/2019	02/11/2020	2020	85	Solar	Level 1
19-12626	11/18/2019	03/18/2020	2020	121	Solar	Level 1
19-12627	11/18/2019	08/21/2020	2020	277	Solar	Level 1
19-12628	11/18/2019	05/15/2020	2020	179	Solar	Level 1
19-12629	11/18/2019	04/07/2020	2020	141	Solar	Level 1
19-12631	11/18/2019	06/12/2020	2020	207	Solar	Level 1
19-12634	11/18/2019	02/05/2020	2020	79	Solar	Level 1
19-12635	11/18/2019	02/13/2020	2020	87	Solar	Level 1
19-12636	11/18/2019	01/21/2020	2020	64	Solar	Level 1
19-12637	11/18/2019	08/18/2020	2020	274	Solar	Level 1
19-12638	11/18/2019	04/07/2020	2020	141	Solar	Level 1
19-12639	11/18/2019	08/04/2020	2020	260	Solar	Level 1
19-12642	11/18/2019	03/24/2020	2020	127	Solar	Level 1
19-12643	11/18/2019	04/15/2020	2020	149	Solar	Level 1
19-12644	11/18/2019	06/12/2020	2020	207	Solar	Level 1
19-12646	11/18/2019	08/12/2020	2020	268	Solar	Level 1
19-12648	11/18/2019	02/27/2020	2020	101	Solar	Level 1
19-12651	11/18/2019	01/27/2020	2020	70	Solar	Level 1
19-12652	11/18/2019	04/15/2020	2020	149	Solar	Level 1
19-12653	11/18/2019	03/24/2020	2020	127	Solar	Level 1
19-12654	11/18/2019	06/26/2020	2020	221	Solar	Level 1
19-12655	11/18/2019	03/17/2020	2020	120	Solar	Level 1
19-12656	11/18/2019	05/26/2020	2020	190	Solar	Level 1
19-12658	11/18/2019	04/24/2020	2020	158	Solar	Level 1
19-12660	11/18/2019	05/03/2020	2020	167	Solar	Level 1
19-12661	11/18/2019	01/28/2020	2020	71	Solar	Level 1
19-12663	11/18/2019	02/12/2020	2020	86	Solar	Level 1
19-12664	11/18/2019	08/14/2020	2020	270	Solar	Level 1
19-12666	11/18/2019	03/30/2020	2020	133	Solar	Level 1
19-12667	11/18/2019	03/30/2020	2020	133	Solar	Level 1

19-12669	11/18/2019	01/27/2020	2020	70	Solar	Level 1
19-12671	11/19/2019	03/23/2020	2020	125	Solar	Level 1
19-12672	11/19/2019	06/24/2020	2020	218	Solar	Level 1
19-12673	11/19/2019	08/23/2020	2020	278	Solar	Level 1
19-12674	11/19/2019	03/26/2020	2020	128	Solar	Level 1
19-12675	11/19/2019	02/25/2020	2020	98	Solar	Level 1
19-12677	11/19/2019	06/16/2020	2020	210	Solar	Level 1
19-12678	11/19/2019	01/02/2020	2020	44	Solar	Level 1
19-12679	11/19/2019	08/20/2020	2020	275	Solar	Level 1
19-12680	11/19/2019	03/10/2020	2020	112	Solar	Level 1
19-12681	11/19/2019	02/25/2020	2020	98	Solar	Level 1
19-12682	11/19/2019	01/17/2020	2020	59	Solar	Level 1
19-12683	11/19/2019	03/20/2020	2020	122	Solar	Level 1
19-12685	11/19/2019	02/12/2020	2020	85	Solar	Level 1
19-12686	11/19/2019	02/11/2020	2020	84	Solar	Level 1
19-12688	11/19/2019	02/17/2020	2020	90	Solar	Level 1
19-12689	11/19/2019	07/21/2020	2020	245	Solar	Level 1
19-12691	11/19/2019	04/13/2020	2020	146	Solar	Level 1
19-12694	11/19/2019	02/27/2020	2020	100	Solar	Level 1
19-12695	11/19/2019	03/18/2020	2020	120	Solar	Level 1
19-12696	11/19/2019	02/17/2020	2020	90	Solar	Level 1
19-12697	11/19/2019	01/24/2020	2020	66	Solar	Level 1
19-12698	11/19/2019	01/27/2020	2020	69	Solar	Level 1
19-12699	11/19/2019	02/12/2020	2020	85	Solar	Level 1
19-12700	11/19/2019	02/13/2020	2020	86	Solar	Level 1
19-12701	11/19/2019	02/07/2020	2020	80	Solar	Level 1
19-12702	11/19/2019	04/27/2020	2020	160	Solar	Level 1
19-12705	11/19/2019	06/03/2020	2020	197	Solar	Level 1
19-12706	11/19/2019	10/19/2020	2020	335	Solar	Level 1
19-12708	11/19/2019	11/23/2020	2020	370	Solar	Level 1
19-12709	11/19/2019	05/19/2020	2020	182	Solar	Level 1
19-12711	11/19/2019	01/15/2020	2020	57	Solar	Level 1
19-12712	11/19/2019	03/24/2020	2020	126	Solar	Level 1
19-12713	11/19/2019	04/30/2020	2020	163	Solar	Level 1
19-12714	11/19/2019	02/17/2020	2020	90	Solar	Level 1
19-12715	11/19/2019	01/07/2020	2020	49	Solar	Level 1
19-12716	11/19/2019	01/14/2020	2020	56	Solar	Level 1
19-12719	11/19/2019	04/28/2020	2020	161	Solar	Level 1
19-12721	11/19/2019	06/03/2020	2020	197	Solar	Level 1
19-12722	11/20/2019	10/23/2020	2020	338	Solar	Level 1
19-12723	11/20/2019	03/05/2020	2020	106	Solar	Level 1

19-12724	11/20/2019	05/11/2020	2020	173	Solar	Level 1
19-12725	11/20/2019	04/15/2020	2020	147	Solar	Level 1
19-12728	11/20/2019	02/12/2020	2020	84	Solar	Level 1
19-12729	11/20/2019	02/19/2020	2020	91	Solar	Level 1
19-12730	11/20/2019	03/16/2020	2020	117	Solar	Level 1
19-12732	11/20/2019	01/06/2020	2020	47	Solar	Level 1
19-12736	11/20/2019	08/19/2020	2020	273	Solar	Level 1
19-12738	11/20/2019	02/06/2020	2020	78	Solar	Level 1
19-12739	11/20/2019	11/11/2020	2020	357	Solar	Level 1
19-12741	11/20/2019	03/23/2020	2020	124	Solar	Level 1
19-12742	11/20/2019	02/27/2020	2020	99	Solar	Level 1
19-12743	11/20/2019	01/24/2020	2020	65	Solar	Level 1
19-12745	11/20/2019	01/24/2020	2020	65	Solar	Level 1
19-12747	11/20/2019	04/16/2020	2020	148	Solar	Level 2
19-12748	11/20/2019	07/21/2020	2020	244	Solar	Level 1
19-12749	11/20/2019	10/23/2020	2020	338	Solar	Level 1
19-12750	11/20/2019	06/29/2020	2020	222	Solar	Level 1
19-12758	11/20/2019	01/16/2020	2020	57	Solar	Level 1
19-12759	11/20/2019	02/12/2020	2020	84	Solar	Level 1
19-12761	11/20/2019	02/12/2020	2020	84	Solar	Level 1
19-12762	11/20/2019	05/18/2020	2020	180	Solar	Level 1
19-12764	11/20/2019	01/30/2020	2020	71	Solar	Level 1
19-12767	11/20/2019	01/31/2020	2020	72	Solar	Level 1
19-12768	11/20/2019	03/30/2020	2020	131	Solar	Level 1
19-12772	11/20/2019	04/02/2020	2020	134	Solar	Level 1
19-12773	11/20/2019	01/14/2020	2020	55	Solar	Level 1
19-12776	11/20/2019	01/09/2020	2020	50	Solar	Level 1
19-12777	11/20/2019	03/20/2020	2020	121	Solar	Level 1
19-12779	11/20/2019	04/15/2020	2020	147	Solar	Level 1
19-12780	11/20/2019	03/17/2020	2020	118	Solar	Level 1
19-12781	11/20/2019	03/10/2020	2020	111	Solar	Level 1
19-12782	11/20/2019	01/17/2020	2020	58	Solar	Level 1
19-12783	11/20/2019	03/23/2020	2020	124	Solar	Level 1
19-12784	11/20/2019	01/30/2020	2020	71	Solar	Level 1
19-12785	11/20/2019	03/24/2020	2020	125	Solar	Level 1
19-12788	11/20/2019	03/19/2020	2020	120	Solar	Level 1
19-12789	11/20/2019	01/22/2020	2020	63	Solar	Level 1
19-12790	11/20/2019	07/20/2020	2020	243	Solar	Level 1
19-12791	11/20/2019	06/12/2020	2020	205	Solar	Level 1
19-12792	11/20/2019	03/02/2020	2020	103	Solar	Level 1
19-12793	11/20/2019	01/30/2020	2020	71	Solar	Level 1

19-12794	11/21/2019	08/15/2020	2020	268	Solar	Level 1
19-12796	11/21/2019	07/20/2020	2020	242	Solar	Level 1
19-12798	11/21/2019	05/11/2020	2020	172	Solar	Level 1
19-12799	11/21/2019	03/17/2020	2020	117	Solar	Level 1
19-12800	11/21/2019	02/25/2020	2020	96	Solar	Level 1
19-12804	11/21/2019	03/04/2020	2020	104	Solar	Level 1
19-12808	11/21/2019	01/17/2020	2020	57	Solar	Level 1
19-12809	11/21/2019	02/17/2020	2020	88	Solar	Level 1
19-12811	11/21/2019	01/29/2020	2020	69	Solar	Level 1
19-12813	11/21/2019	02/19/2020	2020	90	Solar	Level 1
19-12814	11/21/2019	01/23/2020	2020	63	Solar	Level 1
19-12818	11/21/2019	10/28/2020	2020	342	Solar	Level 1
19-12820	11/21/2019	08/26/2020	2020	279	Solar	Level 1
19-12821	11/21/2019	05/20/2020	2020	181	Solar	Level 1
19-12822	11/21/2019	02/19/2020	2020	90	Solar	Level 1
19-12824	11/21/2019	03/17/2020	2020	117	Solar	Level 1
19-12825	11/21/2019	02/04/2020	2020	75	Solar	Level 1
19-12827	11/21/2019	02/24/2020	2020	95	Solar	Level 1
19-12829	11/21/2019	07/09/2020	2020	231	Solar	Level 1
19-12831	11/21/2019	08/19/2020	2020	272	Solar	Level 1
19-12832	11/21/2019	10/20/2020	2020	334	Solar	Level 1
19-12833	11/21/2019	03/09/2020	2020	109	Solar	Level 1
19-12834	11/21/2019	05/11/2020	2020	172	Solar	Level 1
19-12836	11/21/2019	01/17/2020	2020	57	Solar	Level 1
19-12837	11/21/2019	02/05/2020	2020	76	Solar	Level 1
19-12838	11/21/2019	02/03/2020	2020	74	Solar	Level 1
19-12839	11/21/2019	01/14/2020	2020	54	Solar	Level 1
19-12840	11/21/2019	02/25/2020	2020	96	Solar	Level 1
19-12842	11/21/2019	01/02/2020	2020	42	Solar	Level 1
19-12843	11/21/2019	01/17/2020	2020	57	Solar	Level 1
19-12845	11/22/2019	01/16/2020	2020	55	Solar	Level 1
19-12848	11/22/2019	04/20/2020	2020	150	Solar	Level 1
19-12850	11/22/2019	05/26/2020	2020	186	Solar	Level 1
19-12851	11/22/2019	06/01/2020	2020	192	Solar	Level 1
19-12853	11/22/2019	02/07/2020	2020	77	Solar	Level 1
19-12854	11/22/2019	08/19/2020	2020	271	Solar	Level 4
19-12855	11/22/2019	03/31/2020	2020	130	Solar	Level 1
19-12856	11/22/2019	03/04/2020	2020	103	Solar	Level 1
19-12857	11/22/2019	05/06/2020	2020	166	Solar	Level 1
19-12858	11/22/2019	10/07/2020	2020	320	Solar	Level 1
19-12860	11/23/2019	01/21/2020	2020	59	Solar	Level 1

19-12861	11/23/2019	01/17/2020	2020	55	Solar	Level 1
19-12862	11/23/2019	01/24/2020	2020	62	Solar	Level 1
19-12865	11/23/2019	03/12/2020	2020	110	Solar	Level 1
19-12868	11/25/2019	01/24/2020	2020	60	Solar	Level 1
19-12870	11/25/2019	01/27/2020	2020	63	Solar	Level 1
19-12871	11/25/2019	06/29/2020	2020	217	Solar	Level 1
19-12872	11/25/2019	08/30/2020	2020	279	Solar	Level 1
19-12873	11/25/2019	03/02/2020	2020	98	Solar	Level 1
19-12874	11/25/2019	03/03/2020	2020	99	Solar	Level 1
19-12876	11/25/2019	06/12/2020	2020	200	Solar	Level 1
19-12879	11/25/2019	01/28/2020	2020	64	Solar	Level 1
19-12882	11/25/2019	01/21/2020	2020	57	Solar	Level 1
19-12883	11/25/2019	04/20/2020	2020	147	Solar	Level 1
19-12885	11/25/2019	08/17/2020	2020	266	Solar	Level 1
19-12886	11/25/2019	07/20/2020	2020	238	Solar	Level 1
19-12887	11/25/2019	09/21/2020	2020	301	Solar	Level 1
19-12888	11/25/2019	04/15/2020	2020	142	Solar	Level 1
19-12890	11/25/2019	03/04/2020	2020	100	Solar	Level 1
19-12891	11/25/2019	04/24/2020	2020	151	Solar	Level 1
19-12893	11/25/2019	09/11/2020	2020	291	Solar	Level 1
19-12894	11/25/2019	06/24/2020	2020	212	Solar	Level 1
19-12895	11/25/2019	06/01/2020	2020	189	Solar	Level 1
19-12896	11/25/2019	08/19/2020	2020	268	Solar	Level 1
19-12898	11/25/2019	05/13/2020	2020	170	Solar	Level 1
19-12900	11/25/2019	01/23/2020	2020	59	Solar	Level 1
19-12902	11/25/2019	02/03/2020	2020	70	Solar	Level 1
19-12903	11/25/2019	01/09/2020	2020	45	Solar	Level 1
19-12904	11/25/2019	06/12/2020	2020	200	Solar	Level 1
19-12905	11/25/2019	02/19/2020	2020	86	Solar	Level 1
19-12909	11/25/2019	04/14/2020	2020	141	Solar	Level 1
19-12910	11/25/2019	02/21/2020	2020	88	Solar	Level 1
19-12911	11/25/2019	02/25/2020	2020	92	Solar	Level 1
19-12912	11/25/2019	02/21/2020	2020	88	Solar	Level 1
19-12914	11/25/2019	04/07/2020	2020	134	Solar	Level 1
19-12915	11/25/2019	02/13/2020	2020	80	Solar	Level 1
19-12917	11/25/2019	05/04/2020	2020	161	Solar	Level 1
19-12918	11/25/2019	02/13/2020	2020	80	Solar	Level 1
19-12920	11/25/2019	02/13/2020	2020	80	Solar	Level 1
19-12921	11/25/2019	04/27/2020	2020	154	Solar	Level 1
19-12922	11/25/2019	08/12/2020	2020	261	Solar	Level 1
19-12924	11/25/2019	03/17/2020	2020	113	Solar	Level 1

19-12927	11/25/2019	05/26/2020	2020	183	Solar	Level 1
19-12928	11/25/2019	11/19/2020	2020	360	Solar	Level 1
19-12929	11/25/2019	10/06/2020	2020	316	Solar	Level 1
19-12930	11/25/2019	05/29/2020	2020	186	Solar	Level 1
19-12931	11/25/2019	02/12/2020	2020	79	Solar	Level 1
19-12934	11/25/2019	02/07/2020	2020	74	Solar	Level 1
19-12935	11/25/2019	03/18/2020	2020	114	Solar	Level 1
19-12938	11/25/2019	09/14/2020	2020	294	Solar	Level 1
19-12939	11/25/2019	05/06/2020	2020	163	Solar	Level 1
19-12940	11/25/2019	02/06/2020	2020	73	Solar	Level 1
19-12945	11/25/2019	02/19/2020	2020	86	Solar	Level 1
19-12946	11/25/2019	08/08/2020	2020	257	Solar	Level 1
19-12948	11/25/2019	08/26/2020	2020	275	Solar	Level 1
19-12949	11/25/2019	09/06/2020	2020	286	Solar	Level 1
19-12951	11/25/2019	01/16/2020	2020	52	Solar	Level 1
19-12952	11/25/2019	03/24/2020	2020	120	Solar	Level 1
19-12956	11/26/2019	05/24/2020	2020	180	Solar	Level 1
19-12957	11/26/2019	04/20/2020	2020	146	Solar	Level 1
19-12958	11/26/2019	07/07/2020	2020	224	Solar	Level 1
19-12961	11/26/2019	05/29/2020	2020	185	Solar	Level 1
19-12962	11/26/2019	02/04/2020	2020	70	Solar	Level 1
19-12963	11/26/2019	04/02/2020	2020	128	Solar	Level 1
19-12964	11/26/2019	02/07/2020	2020	73	Solar	Level 1
19-12965	11/26/2019	08/11/2020	2020	259	Solar	Level 1
19-12968	11/26/2019	07/13/2020	2020	230	Solar	Level 1
19-12969	11/26/2019	01/09/2020	2020	44	Solar	Level 1
19-12970	11/26/2019	03/31/2020	2020	126	Solar	Level 1
19-12971	11/26/2019	07/17/2020	2020	234	Solar	Level 1
19-12972	11/26/2019	06/04/2020	2020	191	Solar	Level 1
19-12973	11/26/2019	02/04/2020	2020	70	Solar	Level 1
19-12974	11/26/2019	03/04/2020	2020	99	Solar	Level 1
19-12975	11/26/2019	03/24/2020	2020	119	Solar	Level 1
19-12977	11/26/2019	09/15/2020	2020	294	Solar	Level 1
19-12978	11/26/2019	02/07/2020	2020	73	Solar	Level 1
19-12979	11/26/2019	01/03/2020	2020	38	Solar	Level 1
19-12981	11/26/2019	01/17/2020	2020	52	Solar	Level 1
19-12983	11/26/2019	03/24/2020	2020	119	Solar	Level 1
19-12984	11/26/2019	02/07/2020	2020	73	Solar	Level 1
19-12985	11/26/2019	03/13/2020	2020	108	Solar	Level 1
19-12986	11/26/2019	03/03/2020	2020	98	Solar	Level 1
19-12989	11/26/2019	01/10/2020	2020	45	Solar	Level 1

19-12990	11/26/2019	05/27/2020	2020	183	Solar	Level 1
19-12991	11/26/2019	03/26/2020	2020	121	Solar	Level 1
19-12992	11/26/2019	10/15/2020	2020	324	Solar	Level 2
19-12996	11/26/2019	06/19/2020	2020	206	Solar	Level 1
19-12997	11/26/2019	02/07/2020	2020	73	Solar	Level 1
19-12998	11/26/2019	01/16/2020	2020	51	Solar	Level 1
19-12999	11/26/2019	02/06/2020	2020	72	Solar	Level 1
19-13000	11/26/2019	01/23/2020	2020	58	Solar	Level 1
19-13001	11/26/2019	02/17/2020	2020	83	Solar	Level 1
19-13004	11/26/2019	03/09/2020	2020	104	Solar	Level 1
19-13005	11/26/2019	02/10/2020	2020	76	Solar	Level 1
19-13009	11/26/2019	12/31/2020	2020	401	Solar	Level 1
19-13010	11/26/2019	03/03/2020	2020	98	Solar	Level 1
19-13011	11/26/2019	01/23/2020	2020	58	Solar	Level 1
19-13012	11/26/2019	01/24/2020	2020	59	Solar	Level 1
19-13013	11/26/2019	02/07/2020	2020	73	Solar	Level 1
19-13015	11/26/2019	03/08/2020	2020	103	Solar	Level 1
19-13016	11/26/2019	05/15/2020	2020	171	Solar	Level 1
19-13017	11/26/2019	02/04/2020	2020	70	Solar	Level 1
19-13018	11/26/2019	01/02/2020	2020	37	Solar	Level 1
19-13019	11/26/2019	03/12/2020	2020	107	Solar	Level 1
19-13020	11/26/2019	09/29/2020	2020	308	Solar	Level 1
19-13024	11/26/2019	04/30/2020	2020	156	Solar	Level 1
19-13026	11/26/2019	06/30/2020	2020	217	Solar	Level 1
19-13027	11/26/2019	02/07/2020	2020	73	Solar	Level 1
19-13028	11/27/2019	03/31/2020	2020	125	Solar	Level 1
19-13030	11/27/2019	06/01/2020	2020	187	Solar	Level 1
19-13032	11/27/2019	03/17/2020	2020	111	Solar	Level 1
19-13033	11/27/2019	04/20/2020	2020	145	Solar	Level 1
19-13034	11/27/2019	03/13/2020	2020	107	Solar	Level 1
19-13035	11/27/2019	05/07/2020	2020	162	Solar	Level 1
19-13037	11/27/2019	02/12/2020	2020	77	Solar	Level 1
19-13038	11/27/2019	04/21/2020	2020	146	Solar	Level 1
19-13039	11/27/2019	03/19/2020	2020	113	Solar	Level 1
19-13041	11/27/2019	02/13/2020	2020	78	Solar	Level 1
19-13042	11/27/2019	03/30/2020	2020	124	Solar	Level 1
19-13043	11/27/2019	03/17/2020	2020	111	Solar	Level 1
19-13044	11/27/2019	02/25/2020	2020	90	Solar	Level 1
19-13045	11/27/2019	03/04/2020	2020	98	Solar	Level 1
19-13046	11/27/2019	02/12/2020	2020	77	Solar	Level 1
19-13047	11/27/2019	05/04/2020	2020	159	Solar	Level 1

19-13048	11/27/2019	02/27/2020	2020	92	Solar	Level 1
19-13049	11/27/2019	07/14/2020	2020	230	Solar	Level 1
19-13054	11/27/2019	07/21/2020	2020	237	Solar	Level 1
19-13055	11/27/2019	02/27/2020	2020	92	Solar	Level 1
19-13056	11/27/2019	05/06/2020	2020	161	Solar	Level 1
19-13057	11/27/2019	04/20/2020	2020	145	Solar	Level 1
19-13059	11/27/2019	03/17/2020	2020	111	Solar	Level 1
19-13062	11/27/2019	05/06/2020	2020	161	Solar	Level 1
19-13066	11/27/2019	03/17/2020	2020	111	Solar	Level 1
19-13068	11/27/2019	01/13/2020	2020	47	Solar	Level 1
19-13069	11/27/2019	06/11/2020	2020	197	Solar	Level 1
19-13070	11/27/2019	06/24/2020	2020	210	Solar	Level 1
19-13073	11/27/2019	03/02/2020	2020	96	Solar	Level 1
19-13074	11/27/2019	05/04/2020	2020	159	Solar	Level 1
19-13075	11/27/2019	05/05/2020	2020	160	Solar	Level 1
19-13077	11/27/2019	02/18/2020	2020	83	Solar	Level 1
19-13078	11/27/2019	03/04/2020	2020	98	Solar	Level 1
19-13079	11/27/2019	06/29/2020	2020	215	Solar	Level 1
19-13080	11/27/2019	02/09/2020	2020	74	Solar	Level 1
19-13082	11/27/2019	01/28/2020	2020	62	Solar	Level 1
19-13083	11/27/2019	05/11/2020	2020	166	Solar	Level 1
19-13084	11/27/2019	02/10/2020	2020	75	Solar	Level 1
19-13086	11/27/2019	02/21/2020	2020	86	Solar	Level 1
19-13088	11/27/2019	02/06/2020	2020	71	Solar	Level 1
19-13089	11/27/2019	03/18/2020	2020	112	Solar	Level 1
19-13090	11/28/2019	02/03/2020	2020	67	Solar	Level 1
19-13091	11/28/2019	07/16/2020	2020	231	Solar	Level 1
19-13092	11/29/2019	06/08/2020	2020	192	Solar	Level 1
19-13093	11/29/2019	01/14/2020	2020	46	Solar	Level 1
19-13094	11/29/2019	03/25/2020	2020	117	Solar	Level 1
19-13095	11/29/2019	08/17/2020	2020	262	Solar	Level 1
19-13099	12/02/2019	03/13/2020	2020	102	Solar	Level 1
19-13101	12/02/2019	05/07/2020	2020	157	Solar	Level 4
19-13102	12/02/2019	04/23/2020	2020	143	Solar	Level 1
19-13103	12/02/2019	02/05/2020	2020	65	Solar	Level 1
19-13104	12/02/2019	10/21/2020	2020	324	Solar	Level 1
19-13105	12/02/2019	08/21/2020	2020	263	Solar	Level 1
19-13106	12/02/2019	02/13/2020	2020	73	Solar	Level 1
19-13107	12/02/2019	06/12/2020	2020	193	Solar	Level 1
19-13108	12/02/2019	03/13/2020	2020	102	Solar	Level 1
19-13109	12/02/2019	04/16/2020	2020	136	Solar	Level 1

19-13110	12/02/2019	12/17/2020	2020	381	Solar	Level 1
19-13113	12/02/2019	03/19/2020	2020	108	Solar	Level 1
19-13115	12/02/2019	02/09/2020	2020	69	Solar	Level 1
19-13120	12/02/2019	05/06/2020	2020	156	Solar	Level 1
19-13123	12/02/2019	06/07/2020	2020	188	Solar	Level 1
19-13131	12/02/2019	02/19/2020	2020	79	Solar	Level 1
19-13132	12/02/2019	04/27/2020	2020	147	Solar	Level 1
19-13133	12/02/2019	01/16/2020	2020	45	Solar	Level 1
19-13135	12/02/2019	05/19/2020	2020	169	Solar	Level 1
19-13136	12/02/2019	08/21/2020	2020	263	Solar	Level 1
19-13137	12/02/2019	06/12/2020	2020	193	Solar	Level 1
19-13139	12/02/2019	03/24/2020	2020	113	Solar	Level 1
19-13142	12/02/2019	05/18/2020	2020	168	Solar	Level 1
19-13143	12/02/2019	03/17/2020	2020	106	Solar	Level 1
19-13145	12/02/2019	02/19/2020	2020	79	Solar	Level 1
19-13146	12/02/2019	04/07/2020	2020	127	Solar	Level 1
19-13147	12/02/2019	02/21/2020	2020	81	Solar	Level 1
19-13148	12/02/2019	03/09/2020	2020	98	Solar	Level 1
19-13149	12/02/2019	08/17/2020	2020	259	Solar	Level 1
19-13151	12/02/2019	03/31/2020	2020	120	Solar	Level 1
19-13152	12/02/2019	04/07/2020	2020	127	Solar	Level 1
19-13153	12/02/2019	10/14/2020	2020	317	Solar	Level 1
19-13154	12/02/2019	03/08/2020	2020	97	Solar	Level 1
19-13155	12/02/2019	02/19/2020	2020	79	Solar	Level 1
19-13156	12/02/2019	04/01/2020	2020	121	Solar	Level 1
19-13157	12/02/2019	04/27/2020	2020	147	Solar	Level 1
19-13160	12/02/2019	03/18/2020	2020	107	Solar	Level 1
19-13162	12/02/2019	03/19/2020	2020	108	Solar	Level 1
19-13163	12/02/2019	06/24/2020	2020	205	Solar	Level 1
19-13164	12/02/2019	02/14/2020	2020	74	Solar	Level 1
19-13165	12/02/2019	03/23/2020	2020	112	Solar	Level 1
19-13167	12/02/2019	01/16/2020	2020	45	Solar	Level 1
19-13169	12/02/2019	08/01/2020	2020	243	Solar	Level 1
19-13171	12/02/2019	05/08/2020	2020	158	Solar	Level 1
19-13172	12/02/2019	01/09/2020	2020	38	Solar	Level 1
19-13173	12/02/2019	02/21/2020	2020	81	Solar	Level 1
19-13174	12/02/2019	03/04/2020	2020	93	Solar	Level 1
19-13175	12/02/2019	03/19/2020	2020	108	Solar	Level 1
19-13177	12/02/2019	10/09/2020	2020	312	Solar	Level 1
19-13178	12/02/2019	05/21/2020	2020	171	Solar	Level 2
19-13180	12/03/2019	02/10/2020	2020	69	Solar	Level 1

19-13181	12/03/2019	04/30/2020	2020	149	Solar	Level 1
19-13182	12/03/2019	06/01/2020	2020	181	Solar	Level 1
19-13183	12/03/2019	06/08/2020	2020	188	Solar	Level 1
19-13185	12/03/2019	03/17/2020	2020	105	Solar	Level 1
19-13186	12/03/2019	02/26/2020	2020	85	Solar	Level 1
19-13187	12/03/2019	09/03/2020	2020	275	Solar	Level 1
19-13188	12/03/2019	05/26/2020	2020	175	Solar	Level 1
19-13190	12/03/2019	04/14/2020	2020	133	Solar	Level 1
19-13193	12/03/2019	02/28/2020	2020	87	Solar	Level 1
19-13194	12/03/2019	05/07/2020	2020	156	Solar	Level 1
19-13195	12/03/2019	01/27/2020	2020	55	Solar	Level 1
19-13196	12/03/2019	01/13/2020	2020	41	Solar	Level 1
19-13202	12/03/2019	02/26/2020	2020	85	Solar	Level 1
19-13203	12/03/2019	08/10/2020	2020	251	Solar	Level 1
19-13204	12/03/2019	05/18/2020	2020	167	Solar	Level 1
19-13205	12/03/2019	02/13/2020	2020	72	Solar	Level 1
19-13207	12/03/2019	02/06/2020	2020	65	Solar	Level 1
19-13208	12/03/2019	01/28/2020	2020	56	Solar	Level 1
19-13210	12/03/2019	04/30/2020	2020	149	Solar	Level 1
19-13211	12/03/2019	02/24/2020	2020	83	Solar	Level 1
19-13212	12/03/2019	07/17/2020	2020	227	Solar	Level 1
19-13213	12/03/2019	08/18/2020	2020	259	Solar	Level 1
19-13214	12/03/2019	03/24/2020	2020	112	Solar	Level 1
19-13215	12/03/2019	03/19/2020	2020	107	Solar	Level 1
19-13216	12/03/2019	06/29/2020	2020	209	Solar	Level 1
19-13217	12/03/2019	07/21/2020	2020	231	Solar	Level 1
19-13218	12/03/2019	03/17/2020	2020	105	Solar	Level 1
19-13220	12/03/2019	12/09/2020	2020	372	Solar	Level 1
19-13223	12/03/2019	01/14/2020	2020	42	Solar	Level 1
19-13224	12/03/2019	08/21/2020	2020	262	Solar	Level 1
19-13225	12/03/2019	06/01/2020	2020	181	Solar	Level 1
19-13226	12/03/2019	10/06/2020	2020	308	Solar	Level 1
19-13229	12/03/2019	03/05/2020	2020	93	Solar	Level 1
19-13231	12/03/2019	02/07/2020	2020	66	Solar	Level 1
19-13233	12/03/2019	10/29/2020	2020	331	Solar	Level 1
19-13234	12/03/2019	11/18/2020	2020	351	Solar	Level 1
19-13236	12/03/2019	02/07/2020	2020	66	Solar	Level 1
19-13238	12/03/2019	02/20/2020	2020	79	Solar	Level 1
19-13239	12/03/2019	05/08/2020	2020	157	Solar	Level 1
19-13240	12/03/2019	03/17/2020	2020	105	Solar	Level 1
19-13241	12/03/2019	02/14/2020	2020	73	Solar	Level 1

19-13242	12/03/2019	03/17/2020	2020	105	Solar	Level 1
19-13244	12/03/2019	05/12/2020	2020	161	Solar	Level 1
19-13246	12/03/2019	01/02/2020	2020	30	Solar	Level 1
19-13248	12/03/2019	01/02/2020	2020	30	Solar	Level 1
19-13249	12/03/2019	03/18/2020	2020	106	Solar	Level 1
19-13251	12/03/2019	04/07/2020	2020	126	Solar	Level 1
19-13252	12/03/2019	04/07/2020	2020	126	Solar	Level 1
19-13253	12/03/2019	03/03/2020	2020	91	Solar	Level 1
19-13254	12/03/2019	06/25/2020	2020	205	Solar	Level 1
19-13257	12/04/2019	04/13/2020	2020	131	Solar	Level 1
19-13258	12/04/2019	03/19/2020	2020	106	Solar	Level 1
19-13259	12/04/2019	03/12/2020	2020	99	Solar	Level 1
19-13260	12/04/2019	04/13/2020	2020	131	Solar	Level 1
19-13261	12/04/2019	08/24/2020	2020	264	Solar	Level 1
19-13262	12/04/2019	06/12/2020	2020	191	Solar	Level 1
19-13263	12/04/2019	08/23/2020	2020	263	Solar	Level 1
19-13267	12/04/2019	01/17/2020	2020	44	Solar	Level 1
19-13269	12/04/2019	08/06/2020	2020	246	Solar	Level 1
19-13270	12/04/2019	02/18/2020	2020	76	Solar	Level 1
19-13271	12/04/2019	02/19/2020	2020	77	Solar	Level 1
19-13272	12/04/2019	01/30/2020	2020	57	Solar	Level 1
19-13273	12/04/2019	08/08/2020	2020	248	Solar	Level 1
19-13275	12/04/2019	06/22/2020	2020	201	Solar	Level 1
19-13280	12/04/2019	02/17/2020	2020	75	Solar	Level 1
19-13282	12/04/2019	05/27/2020	2020	175	Solar	Level 1
19-13283	12/04/2019	06/17/2020	2020	196	Solar	Level 1
19-13284	12/04/2019	05/26/2020	2020	174	Solar	Level 1
19-13285	12/04/2019	02/21/2020	2020	79	Solar	Level 1
19-13286	12/04/2019	01/24/2020	2020	51	Solar	Level 1
19-13287	12/04/2019	02/17/2020	2020	75	Solar	Level 1
19-13288	12/04/2019	02/19/2020	2020	77	Solar	Level 1
19-13289	12/04/2019	01/09/2020	2020	36	Solar	Level 1
19-13291	12/04/2019	04/13/2020	2020	131	Solar	Level 1
19-13292	12/04/2019	05/13/2020	2020	161	Solar	Level 1
19-13295	12/04/2019	08/30/2020	2020	270	Solar	Level 1
19-13296	12/04/2019	03/06/2020	2020	93	Solar	Level 1
19-13297	12/04/2019	02/14/2020	2020	72	Solar	Level 1
19-13298	12/04/2019	09/12/2020	2020	283	Solar	Level 1
19-13299	12/04/2019	03/31/2020	2020	118	Solar	Level 1
19-13300	12/04/2019	04/21/2020	2020	139	Solar	Level 1
19-13302	12/04/2019	02/28/2020	2020	86	Solar	Level 1

19-13303	12/04/2019	03/19/2020	2020	106	Solar	Level 1
19-13304	12/05/2019	01/30/2020	2020	56	Solar	Level 1
19-13305	12/05/2019	05/18/2020	2020	165	Solar	Level 1
19-13306	12/05/2019	07/16/2020	2020	224	Solar	Level 1
19-13308	12/05/2019	04/07/2020	2020	124	Solar	Level 1
19-13309	12/05/2019	11/12/2020	2020	343	Solar	Level 1
19-13310	12/05/2019	08/08/2020	2020	247	Solar	Level 1
19-13311	12/05/2019	11/06/2020	2020	337	Solar	Level 1
19-13312	12/05/2019	02/25/2020	2020	82	Solar	Level 1
19-13315	12/05/2019	02/04/2020	2020	61	Solar	Level 1
19-13316	12/05/2019	03/16/2020	2020	102	Solar	Level 1
19-13318	12/05/2019	05/06/2020	2020	153	Solar	Level 1
19-13322	12/05/2019	10/05/2020	2020	305	Solar	Level 1
19-13323	12/05/2019	07/23/2020	2020	231	Solar	Level 1
19-13325	12/05/2019	05/12/2020	2020	159	Solar	Level 1
19-13327	12/05/2019	03/04/2020	2020	90	Solar	Level 1
19-13331	12/05/2019	03/12/2020	2020	98	Solar	Level 1
19-13332	12/05/2019	04/13/2020	2020	130	Solar	Level 1
19-13333	12/05/2019	08/10/2020	2020	249	Solar	Level 1
19-13334	12/05/2019	03/10/2020	2020	96	Solar	Level 1
19-13336	12/05/2019	10/19/2020	2020	319	Solar	Level 1
19-13337	12/05/2019	02/19/2020	2020	76	Solar	Level 1
19-13338	12/05/2019	04/22/2020	2020	139	Solar	Level 1
19-13339	12/05/2019	03/26/2020	2020	112	Solar	Level 4
19-13340	12/05/2019	04/07/2020	2020	124	Solar	Level 1
19-13341	12/05/2019	04/07/2020	2020	124	Solar	Level 1
19-13342	12/05/2019	01/28/2020	2020	54	Solar	Level 1
19-13343	12/05/2019	11/12/2020	2020	343	Solar	Level 1
19-13344	12/05/2019	08/12/2020	2020	251	Solar	Level 1
19-13345	12/05/2019	04/23/2020	2020	140	Solar	Level 1
19-13349	12/05/2019	07/21/2020	2020	229	Solar	Level 1
19-13352	12/05/2019	01/03/2020	2020	29	Solar	Level 1
19-13355	12/05/2019	04/13/2020	2020	130	Solar	Level 1
19-13359	12/05/2019	01/24/2020	2020	50	Solar	Level 1
19-13362	12/06/2019	05/08/2020	2020	154	Solar	Level 1
19-13363	12/06/2019	09/14/2020	2020	283	Solar	Level 1
19-13364	12/06/2019	03/02/2020	2020	87	Solar	Level 1
19-13365	12/06/2019	06/04/2020	2020	181	Solar	Level 1
19-13368	12/06/2019	04/13/2020	2020	129	Solar	Level 1
19-13369	12/06/2019	02/19/2020	2020	75	Solar	Level 1
19-13371	12/06/2019	08/08/2020	2020	246	Solar	Level 1

19-13373	12/06/2019	10/06/2020	2020	305	Solar	Level 1
19-13375	12/06/2019	03/19/2020	2020	104	Solar	Level 1
19-13379	12/06/2019	05/18/2020	2020	164	Solar	Level 1
19-13381	12/06/2019	08/19/2020	2020	257	Solar	Level 1
19-13382	12/06/2019	03/02/2020	2020	87	Solar	Level 1
19-13384	12/06/2019	03/09/2020	2020	94	Solar	Level 1
19-13385	12/06/2019	03/11/2020	2020	96	Solar	Level 1
19-13395	12/07/2019	04/02/2020	2020	117	Solar	Level 1
19-13397	12/08/2019	03/05/2020	2020	88	Solar	Level 1
19-13399	12/09/2019	08/17/2020	2020	252	Solar	Level 1
19-13401	12/09/2019	03/12/2020	2020	94	Solar	Level 1
19-13402	12/09/2019	02/19/2020	2020	72	Solar	Level 1
19-13403	12/09/2019	05/26/2020	2020	169	Solar	Level 1
19-13404	12/09/2019	04/23/2020	2020	136	Solar	Level 1
19-13408	12/09/2019	05/18/2020	2020	161	Solar	Level 1
19-13409	12/09/2019	04/27/2020	2020	140	Solar	Level 1
19-13410	12/09/2019	05/18/2020	2020	161	Solar	Level 1
19-13411	12/09/2019	06/30/2020	2020	204	Solar	Level 1
19-13412	12/09/2019	05/04/2020	2020	147	Solar	Level 1
19-13413	12/09/2019	10/10/2020	2020	306	Solar	Level 1
19-13414	12/09/2019	06/12/2020	2020	186	Solar	Level 1
19-13418	12/09/2019	08/19/2020	2020	254	Solar	Level 1
19-13420	12/09/2019	06/05/2020	2020	179	Solar	Level 1
19-13421	12/09/2019	03/05/2020	2020	87	Solar	Level 1
19-13422	12/09/2019	08/10/2020	2020	245	Solar	Level 1
19-13423	12/09/2019	08/30/2020	2020	265	Solar	Level 1
19-13425	12/09/2019	02/27/2020	2020	80	Solar	Level 1
19-13426	12/09/2019	04/07/2020	2020	120	Solar	Level 1
19-13429	12/09/2019	08/20/2020	2020	255	Solar	Level 1
19-13430	12/09/2019	03/18/2020	2020	100	Solar	Level 1
19-13431	12/09/2019	05/03/2020	2020	146	Solar	Level 1
19-13432	12/09/2019	04/21/2020	2020	134	Solar	Level 1
19-13434	12/09/2019	11/11/2020	2020	338	Solar	Level 1
19-13435	12/09/2019	07/31/2020	2020	235	Solar	Level 1
19-13436	12/09/2019	06/07/2020	2020	181	Solar	Level 1
19-13437	12/09/2019	02/24/2020	2020	77	Solar	Level 1
19-13440	12/09/2019	08/21/2020	2020	256	Solar	Level 1
19-13442	12/09/2019	06/12/2020	2020	186	Solar	Level 1
19-13443	12/09/2019	08/17/2020	2020	252	Solar	Level 1
19-13444	12/09/2019	08/10/2020	2020	245	Solar	Level 1
19-13445	12/09/2019	02/13/2020	2020	66	Solar	Level 1

19-13446	12/09/2019	04/20/2020	2020	133	Solar	Level 1
19-13447	12/09/2019	03/19/2020	2020	101	Solar	Level 1
19-13448	12/09/2019	03/03/2020	2020	85	Solar	Level 1
19-13450	12/09/2019	06/29/2020	2020	203	Solar	Level 1
19-13451	12/09/2019	06/12/2020	2020	186	Solar	Level 1
19-13452	12/10/2019	04/27/2020	2020	139	Solar	Level 1
19-13453	12/10/2019	06/19/2020	2020	192	Solar	Level 1
19-13458	12/10/2019	08/10/2020	2020	244	Solar	Level 1
19-13460	12/10/2019	08/12/2020	2020	246	Solar	Level 1
19-13463	12/10/2019	03/23/2020	2020	104	Solar	Level 1
19-13464	12/10/2019	03/31/2020	2020	112	Solar	Level 1
19-13466	12/10/2019	02/12/2020	2020	64	Solar	Level 1
19-13467	12/10/2019	10/14/2020	2020	309	Solar	Level 1
19-13468	12/10/2019	02/13/2020	2020	65	Solar	Level 1
19-13471	12/10/2019	01/17/2020	2020	38	Solar	Level 1
19-13473	12/10/2019	10/01/2020	2020	296	Solar	Level 1
19-13474	12/10/2019	03/25/2020	2020	106	Solar	Level 1
19-13475	12/10/2019	02/13/2020	2020	65	Solar	Level 1
19-13476	12/10/2019	02/11/2020	2020	63	Solar	Level 1
19-13478	12/10/2019	04/14/2020	2020	126	Solar	Level 1
19-13479	12/10/2019	04/20/2020	2020	132	Solar	Level 1
19-13481	12/10/2019	04/07/2020	2020	119	Solar	Level 1
19-13482	12/10/2019	05/06/2020	2020	148	Solar	Level 1
19-13483	12/10/2019	11/18/2020	2020	344	Solar	Level 1
19-13484	12/10/2019	08/21/2020	2020	255	Solar	Level 1
19-13485	12/10/2019	03/02/2020	2020	83	Solar	Level 1
19-13486	12/10/2019	03/11/2020	2020	92	Solar	Level 1
19-13487	12/10/2019	03/02/2020	2020	83	Solar	Level 1
19-13488	12/10/2019	02/13/2020	2020	65	Solar	Level 1
19-13489	12/10/2019	03/06/2020	2020	87	Solar	Level 1
19-13490	12/10/2019	03/03/2020	2020	84	Solar	Level 1
19-13492	12/10/2019	03/12/2020	2020	93	Solar	Level 1
19-13494	12/10/2019	03/19/2020	2020	100	Solar	Level 1
19-13495	12/10/2019	03/27/2020	2020	108	Solar	Level 1
19-13496	12/10/2019	05/14/2020	2020	156	Solar	Level 1
19-13497	12/10/2019	08/19/2020	2020	253	Solar	Level 1
19-13499	12/10/2019	01/22/2020	2020	43	Solar	Level 1
19-13500	12/10/2019	03/19/2020	2020	100	Solar	Level 1
19-13501	12/10/2019	04/15/2020	2020	127	Solar	Level 1
19-13502	12/10/2019	03/16/2020	2020	97	Solar	Level 1
19-13503	12/10/2019	04/23/2020	2020	135	Solar	Level 1

19-13504	12/10/2019	03/30/2020	2020	111	Solar	Level 1
19-13505	12/10/2019	06/15/2020	2020	188	Solar	Level 1
19-13508	12/11/2019	03/17/2020	2020	97	Solar	Level 1
19-13509	12/11/2019	02/18/2020	2020	69	Solar	Level 1
19-13510	12/11/2019	01/31/2020	2020	51	Solar	Level 1
19-13511	12/11/2019	04/10/2020	2020	121	Solar	Level 1
19-13512	12/11/2019	02/19/2020	2020	70	Solar	Level 1
19-13515	12/11/2019	03/09/2020	2020	89	Solar	Level 1
19-13517	12/11/2019	06/22/2020	2020	194	Solar	Level 1
19-13518	12/11/2019	06/12/2020	2020	184	Solar	Level 1
19-13520	12/11/2019	10/07/2020	2020	301	Solar	Level 1
19-13523	12/11/2019	06/25/2020	2020	197	Solar	Level 1
19-13525	12/11/2019	02/27/2020	2020	78	Solar	Level 1
19-13526	12/11/2019	06/11/2020	2020	183	Solar	Level 1
19-13527	12/11/2019	03/04/2020	2020	84	Solar	Level 1
19-13528	12/11/2019	02/25/2020	2020	76	Solar	Level 1
19-13531	12/11/2019	03/16/2020	2020	96	Solar	Level 1
19-13532	12/11/2019	02/28/2020	2020	79	Solar	Level 1
19-13533	12/11/2019	02/19/2020	2020	70	Solar	Level 1
19-13534	12/11/2019	04/13/2020	2020	124	Solar	Level 4
19-13537	12/11/2019	01/24/2020	2020	44	Solar	Level 1
19-13538	12/11/2019	03/23/2020	2020	103	Solar	Level 1
19-13539	12/11/2019	05/04/2020	2020	145	Solar	Level 1
19-13540	12/11/2019	04/27/2020	2020	138	Solar	Level 1
19-13541	12/11/2019	06/29/2020	2020	201	Solar	Level 1
19-13542	12/11/2019	02/12/2020	2020	63	Solar	Level 1
19-13543	12/11/2019	05/27/2020	2020	168	Solar	Level 1
19-13544	12/11/2019	04/07/2020	2020	118	Solar	Level 1
19-13545	12/11/2019	04/15/2020	2020	126	Solar	Level 1
19-13546	12/11/2019	08/14/2020	2020	247	Solar	Level 1
19-13548	12/11/2019	08/04/2020	2020	237	Solar	Level 1
19-13549	12/11/2019	03/31/2020	2020	111	Solar	Level 1
19-13550	12/11/2019	03/24/2020	2020	104	Solar	Level 1
19-13552	12/11/2019	02/28/2020	2020	79	Solar	Level 1
19-13553	12/11/2019	09/23/2020	2020	287	Solar	Level 1
19-13554	12/11/2019	02/25/2020	2020	76	Solar	Level 1
19-13555	12/11/2019	07/14/2020	2020	216	Solar	Level 1
19-13556	12/11/2019	06/11/2020	2020	183	Solar	Level 1
19-13560	12/11/2019	06/30/2020	2020	202	Solar	Level 1
19-13561	12/11/2019	05/11/2020	2020	152	Solar	Level 2
19-13563	12/12/2019	06/26/2020	2020	197	Solar	Level 1

19-13568	12/12/2019	02/14/2020	2020	64	Solar	Level 1
19-13571	12/12/2019	09/20/2020	2020	283	Solar	Level 1
19-13573	12/12/2019	04/06/2020	2020	116	Solar	Level 1
19-13574	12/12/2019	02/19/2020	2020	69	Solar	Level 1
19-13577	12/12/2019	04/27/2020	2020	137	Solar	Level 1
19-13578	12/12/2019	04/27/2020	2020	137	Solar	Level 1
19-13579	12/12/2019	05/29/2020	2020	169	Solar	Level 1
19-13580	12/12/2019	06/12/2020	2020	183	Solar	Level 1
19-13581	12/12/2019	04/14/2020	2020	124	Solar	Level 4
19-13582	12/12/2019	03/23/2020	2020	102	Solar	Level 1
19-13583	12/12/2019	05/14/2020	2020	154	Solar	Level 1
19-13584	12/12/2019	04/07/2020	2020	117	Solar	Level 1
19-13585	12/12/2019	03/11/2020	2020	90	Solar	Level 1
19-13586	12/12/2019	04/21/2020	2020	131	Solar	Level 1
19-13588	12/12/2019	01/16/2020	2020	35	Solar	Level 1
19-13589	12/12/2019	01/23/2020	2020	42	Solar	Level 1
19-13590	12/12/2019	02/04/2020	2020	54	Solar	Level 1
19-13591	12/12/2019	07/14/2020	2020	215	Solar	Level 1
19-13592	12/12/2019	05/26/2020	2020	166	Solar	Level 1
19-13594	12/12/2019	03/09/2020	2020	88	Solar	Level 1
19-13595	12/12/2019	03/09/2020	2020	88	Solar	Level 1
19-13596	12/12/2019	02/07/2020	2020	57	Solar	Level 1
19-13597	12/12/2019	01/31/2020	2020	50	Solar	Level 1
19-13599	12/12/2019	03/31/2020	2020	110	Solar	Level 1
19-13600	12/12/2019	06/12/2020	2020	183	Solar	Level 1
19-13602	12/12/2019	04/01/2020	2020	111	Solar	Level 1
19-13603	12/12/2019	03/12/2020	2020	91	Solar	Level 1
19-13605	12/12/2019	03/09/2020	2020	88	Solar	Level 1
19-13606	12/12/2019	02/24/2020	2020	74	Solar	Level 1
19-13607	12/12/2019	03/17/2020	2020	96	Solar	Level 1
19-13608	12/12/2019	04/27/2020	2020	137	Solar	Level 1
19-13610	12/12/2019	03/13/2020	2020	92	Solar	Level 1
19-13612	12/12/2019	08/18/2020	2020	250	Solar	Level 1
19-13613	12/12/2019	03/23/2020	2020	102	Solar	Level 1
19-13614	12/12/2019	08/17/2020	2020	249	Solar	Level 1
19-13615	12/12/2019	06/29/2020	2020	200	Solar	Level 1
19-13619	12/13/2019	08/08/2020	2020	239	Solar	Level 1
19-13620	12/13/2019	09/29/2020	2020	291	Solar	Level 1
19-13624	12/13/2019	01/21/2020	2020	39	Solar	Level 1
19-13625	12/13/2019	02/06/2020	2020	55	Solar	Level 1
19-13626	12/13/2019	05/06/2020	2020	145	Solar	Level 1

19-13627	12/13/2019	06/12/2020	2020	182	Solar	Level 1
19-13628	12/13/2019	02/28/2020	2020	77	Solar	Level 1
19-13630	12/13/2019	09/14/2020	2020	276	Solar	Level 1
19-13631	12/13/2019	06/19/2020	2020	189	Solar	Level 1
19-13632	12/13/2019	02/14/2020	2020	63	Solar	Level 1
19-13634	12/13/2019	03/17/2020	2020	95	Solar	Level 1
19-13635	12/13/2019	02/27/2020	2020	76	Solar	Level 1
19-13636	12/13/2019	03/30/2020	2020	108	Solar	Level 1
19-13637	12/13/2019	06/08/2020	2020	178	Solar	Level 1
19-13639	12/13/2019	08/26/2020	2020	257	Solar	Level 1
19-13640	12/13/2019	09/19/2020	2020	281	Solar	Level 1
19-13641	12/13/2019	03/19/2020	2020	97	Storage	Level 1
19-13642	12/13/2019	02/14/2020	2020	63	Solar	Level 1
19-13643	12/13/2019	05/28/2020	2020	167	Solar	Level 1
19-13645	12/13/2019	07/24/2020	2020	224	Solar	Level 1
19-13646	12/13/2019	03/31/2020	2020	109	Solar	Level 1
19-13648	12/13/2019	08/19/2020	2020	250	Solar	Level 1
19-13649	12/13/2019	03/02/2020	2020	80	Solar	Level 1
19-13652	12/13/2019	08/06/2020	2020	237	Solar	Level 1
19-13654	12/13/2019	03/12/2020	2020	90	Solar	Level 1
19-13655	12/13/2019	08/23/2020	2020	254	Solar	Level 1
19-13656	12/13/2019	02/12/2020	2020	61	Solar	Level 1
19-13657	12/13/2019	04/13/2020	2020	122	Solar	Level 1
19-13658	12/13/2019	09/24/2020	2020	286	Solar	Level 1
19-13660	12/13/2019	06/12/2020	2020	182	Solar	Level 1
19-13661	12/13/2019	04/02/2020	2020	111	Solar	Level 1
19-13663	12/13/2019	04/26/2020	2020	135	Solar	Level 1
19-13664	12/13/2019	03/03/2020	2020	81	Solar	Level 1
19-13665	12/13/2019	04/14/2020	2020	123	Solar	Level 1
19-13666	12/14/2019	04/13/2020	2020	121	Solar	Level 1
19-13667	12/14/2019	05/20/2020	2020	158	Solar	Level 1
19-13668	12/16/2019	06/07/2020	2020	174	Solar	Level 1
19-13669	12/16/2019	01/29/2020	2020	44	Solar	Level 1
19-13670	12/16/2019	03/17/2020	2020	92	Solar	Level 1
19-13671	12/16/2019	08/10/2020	2020	238	Solar	Level 1
19-13672	12/16/2019	04/13/2020	2020	119	Solar	Level 1
19-13673	12/16/2019	04/13/2020	2020	119	Solar	Level 1
19-13674	12/16/2019	05/18/2020	2020	154	Solar	Level 1
19-13675	12/16/2019	06/12/2020	2020	179	Solar	Level 1
19-13676	12/16/2019	03/12/2020	2020	87	Solar	Level 1
19-13677	12/16/2019	05/21/2020	2020	157	Solar	Level 1

19-13679	12/16/2019	08/17/2020	2020	245	Solar	Level 1
19-13680	12/16/2019	05/06/2020	2020	142	Solar	Level 1
19-13681	12/16/2019	06/24/2020	2020	191	Solar	Level 1
19-13683	12/16/2019	06/11/2020	2020	178	Solar	Level 1
19-13684	12/16/2019	04/20/2020	2020	126	Solar	Level 1
19-13685	12/16/2019	06/09/2020	2020	176	Solar	Level 1
19-13687	12/16/2019	06/11/2020	2020	178	Solar	Level 1
19-13688	12/16/2019	06/08/2020	2020	175	Solar	Level 1
19-13689	12/16/2019	06/09/2020	2020	176	Solar	Level 1
19-13691	12/16/2019	02/27/2020	2020	73	Solar	Level 1
19-13692	12/16/2019	03/31/2020	2020	106	Solar	Level 1
19-13694	12/16/2019	04/14/2020	2020	120	Solar	Level 1
19-13696	12/16/2019	03/19/2020	2020	94	Solar	Level 1
19-13697	12/16/2019	01/21/2020	2020	36	Solar	Level 1
19-13698	12/16/2019	08/19/2020	2020	247	Solar	Level 1
19-13699	12/16/2019	04/16/2020	2020	122	Solar	Level 1
19-13700	12/16/2019	06/04/2020	2020	171	Solar	Level 1
19-13702	12/16/2019	05/26/2020	2020	162	Solar	Level 1
19-13704	12/17/2019	04/24/2020	2020	129	Solar	Level 1
19-13706	12/17/2019	04/02/2020	2020	107	Solar	Level 1
19-13707	12/17/2019	04/27/2020	2020	132	Solar	Level 1
19-13709	12/17/2019	02/10/2020	2020	55	Solar	Level 1
19-13711	12/17/2019	11/11/2020	2020	330	Solar	Level 1
19-13712	12/17/2019	01/07/2020	2020	21	Solar	Level 1
19-13713	12/17/2019	03/19/2020	2020	93	Solar	Level 1
19-13715	12/17/2019	06/01/2020	2020	167	Solar	Level 1
19-13716	12/17/2019	05/12/2020	2020	147	Solar	Level 1
19-13717	12/17/2019	08/20/2020	2020	247	Solar	Level 1
19-13719	12/17/2019	11/17/2020	2020	336	Solar	Level 1
19-13721	12/17/2019	01/28/2020	2020	42	Solar	Level 1
19-13722	12/17/2019	04/27/2020	2020	132	Solar	Level 1
19-13726	12/17/2019	07/20/2020	2020	216	Solar	Level 1
19-13727	12/17/2019	05/20/2020	2020	155	Solar	Level 1
19-13729	12/17/2019	04/01/2020	2020	106	Solar	Level 1
19-13730	12/17/2019	10/21/2020	2020	309	Solar	Level 1
19-13732	12/17/2019	10/07/2020	2020	295	Solar	Level 1
19-13734	12/17/2019	03/12/2020	2020	86	Solar	Level 1
19-13735	12/17/2019	03/02/2020	2020	76	Solar	Level 1
19-13736	12/17/2019	04/27/2020	2020	132	Solar	Level 1
19-13737	12/17/2019	03/05/2020	2020	79	Solar	Level 1
19-13739	12/17/2019	03/05/2020	2020	79	Solar	Level 1

19-13740	12/17/2019	02/13/2020	2020	58	Solar	Level 1
19-13741	12/17/2019	10/05/2020	2020	293	Solar	Level 1
19-13742	12/17/2019	03/19/2020	2020	93	Solar	Level 1
19-13743	12/17/2019	05/18/2020	2020	153	Solar	Level 1
19-13744	12/17/2019	04/27/2020	2020	132	Solar	Level 1
19-13746	12/17/2019	03/17/2020	2020	91	Solar	Level 1
19-13747	12/17/2019	08/06/2020	2020	233	Solar	Level 1
19-13748	12/17/2019	09/28/2020	2020	286	Solar	Level 1
19-13749	12/17/2019	03/17/2020	2020	91	Solar	Level 1
19-13750	12/17/2019	02/24/2020	2020	69	Solar	Level 1
19-13751	12/17/2019	08/21/2020	2020	248	Solar	Level 1
19-13752	12/17/2019	03/09/2020	2020	83	Solar	Level 1
19-13754	12/17/2019	10/22/2020	2020	310	Solar	Level 1
19-13755	12/17/2019	04/14/2020	2020	119	Solar	Level 1
19-13756	12/17/2019	04/02/2020	2020	107	Solar	Level 1
19-13757	12/18/2019	07/07/2020	2020	202	Solar	Level 1
19-13758	12/18/2019	01/29/2020	2020	42	Solar	Level 1
19-13759	12/18/2019	01/30/2020	2020	43	Solar	Level 1
19-13760	12/18/2019	09/02/2020	2020	259	Solar	Level 1
19-13761	12/18/2019	05/27/2020	2020	161	Solar	Level 1
19-13762	12/18/2019	03/04/2020	2020	77	Solar	Level 1
19-13763	12/18/2019	08/21/2020	2020	247	Solar	Level 1
19-13767	12/18/2019	02/25/2020	2020	69	Solar	Level 1
19-13768	12/18/2019	04/08/2020	2020	112	Solar	Level 1
19-13770	12/18/2019	08/29/2020	2020	255	Solar	Level 1
19-13771	12/18/2019	09/20/2020	2020	277	Solar	Level 1
19-13772	12/18/2019	08/19/2020	2020	245	Solar	Level 1
19-13773	12/18/2019	12/04/2020	2020	352	Solar	Level 1
19-13774	12/18/2019	04/02/2020	2020	106	Solar	Level 1
19-13775	12/18/2019	06/12/2020	2020	177	Solar	Level 1
19-13776	12/18/2019	04/28/2020	2020	132	Solar	Level 1
19-13777	12/18/2019	06/01/2020	2020	166	Solar	Level 1
19-13778	12/18/2019	04/13/2020	2020	117	Solar	Level 1
19-13779	12/18/2019	03/04/2020	2020	77	Solar	Level 1
19-13780	12/18/2019	02/27/2020	2020	71	Solar	Level 1
19-13784	12/18/2019	03/12/2020	2020	85	Solar	Level 1
19-13786	12/18/2019	03/02/2020	2020	75	Solar	Level 1
19-13787	12/18/2019	02/25/2020	2020	69	Solar	Level 1
19-13789	12/18/2019	03/31/2020	2020	104	Solar	Level 1
19-13790	12/18/2019	01/24/2020	2020	37	Solar	Level 1
19-13791	12/18/2019	05/21/2020	2020	155	Solar	Level 1

19-13792	12/18/2019	07/30/2020	2020	225	Solar	Level 1
19-13793	12/18/2019	10/13/2020	2020	300	Solar	Level 1
19-13794	12/18/2019	04/13/2020	2020	117	Solar	Level 1
19-13795	12/18/2019	02/10/2020	2020	54	Solar	Level 1
19-13796	12/18/2019	10/05/2020	2020	292	Solar	Level 1
19-13797	12/18/2019	03/19/2020	2020	92	Solar	Level 1
19-13798	12/18/2019	06/29/2020	2020	194	Solar	Level 1
19-13799	12/18/2019	03/16/2020	2020	89	Solar	Level 1
19-13801	12/18/2019	08/21/2020	2020	247	Solar	Level 1
19-13802	12/18/2019	04/20/2020	2020	124	Solar	Level 1
19-13803	12/18/2019	05/24/2020	2020	158	Solar	Level 1
19-13804	12/18/2019	03/24/2020	2020	97	Solar	Level 1
19-13805	12/18/2019	06/30/2020	2020	195	Solar	Level 1
19-13806	12/18/2019	04/07/2020	2020	111	Solar	Level 1
19-13807	12/18/2019	04/13/2020	2020	117	Solar	Level 1
19-13809	12/18/2019	03/19/2020	2020	92	Solar	Level 1
19-13810	12/19/2019	09/17/2020	2020	273	Solar	Level 1
19-13811	12/19/2019	06/12/2020	2020	176	Solar	Level 1
19-13813	12/19/2019	03/17/2020	2020	89	Solar	Level 1
19-13816	12/19/2019	03/12/2020	2020	84	Solar	Level 1
19-13818	12/19/2019	11/25/2020	2020	342	Solar	Level 1
19-13819	12/19/2019	01/24/2020	2020	36	Solar	Level 1
19-13820	12/19/2019	02/12/2020	2020	55	Solar	Level 1
19-13821	12/19/2019	02/06/2020	2020	49	Solar	Level 1
19-13822	12/19/2019	02/19/2020	2020	62	Solar	Level 1
19-13825	12/19/2019	01/27/2020	2020	39	Solar	Level 1
19-13826	12/19/2019	09/17/2020	2020	273	Solar	Level 1
19-13827	12/19/2019	02/03/2020	2020	46	Solar	Level 1
19-13828	12/19/2019	02/21/2020	2020	64	Solar	Level 1
19-13829	12/19/2019	04/06/2020	2020	109	Solar	Level 1
19-13831	12/19/2019	05/06/2020	2020	139	Solar	Level 1
19-13832	12/19/2019	04/27/2020	2020	130	Solar	Level 1
19-13834	12/19/2019	04/07/2020	2020	110	Solar	Level 1
19-13835	12/19/2019	08/20/2020	2020	245	Solar	Level 1
19-13836	12/19/2019	04/14/2020	2020	117	Solar	Level 1
19-13837	12/19/2019	05/22/2020	2020	155	Solar	Level 1
19-13838	12/19/2019	07/21/2020	2020	215	Solar	Level 1
19-13840	12/19/2019	03/31/2020	2020	103	Solar	Level 1
19-13842	12/19/2019	06/15/2020	2020	179	Solar	Level 1
19-13844	12/19/2019	08/19/2020	2020	244	Solar	Level 1
19-13846	12/19/2019	05/11/2020	2020	144	Solar	Level 1

19-13847	12/19/2019	10/05/2020	2020	291	Solar	Level 1
19-13848	12/19/2019	03/09/2020	2020	81	Solar	Level 1
19-13852	12/19/2019	03/17/2020	2020	89	Solar	Level 1
19-13853	12/19/2019	04/13/2020	2020	116	Solar	Level 1
19-13854	12/19/2019	03/31/2020	2020	103	Solar	Level 1
19-13857	12/19/2019	03/05/2020	2020	77	Solar	Level 1
19-13859	12/19/2019	05/19/2020	2020	152	Solar	Level 1
19-13860	12/19/2019	06/29/2020	2020	193	Solar	Level 1
19-13861	12/19/2019	03/10/2020	2020	82	Solar	Level 1
19-13862	12/19/2019	03/06/2020	2020	78	Solar	Level 1
19-13864	12/20/2019	10/21/2020	2020	306	Solar	Level 1
19-13865	12/20/2019	02/26/2020	2020	68	Solar	Level 1
19-13866	12/20/2019	03/17/2020	2020	88	Solar	Level 1
19-13867	12/20/2019	11/17/2020	2020	333	Solar	Level 1
19-13868	12/20/2019	02/04/2020	2020	46	Solar	Level 1
19-13870	12/20/2019	11/03/2020	2020	319	Solar	Level 1
19-13871	12/20/2019	01/02/2020	2020	13	Solar	Level 1
19-13872	12/20/2019	01/17/2020	2020	28	Solar	Level 1
19-13874	12/20/2019	02/24/2020	2020	66	Solar	Level 1
19-13875	12/20/2019	07/31/2020	2020	224	Solar	Level 1
19-13876	12/20/2019	02/25/2020	2020	67	Solar	Level 1
19-13877	12/20/2019	07/31/2020	2020	224	Solar	Level 1
19-13880	12/20/2019	03/26/2020	2020	97	Solar	Level 1
19-13881	12/20/2019	10/15/2020	2020	300	Solar	Level 1
19-13882	12/20/2019	09/20/2020	2020	275	Solar	Level 1
19-13884	12/20/2019	03/31/2020	2020	102	Solar	Level 1
19-13885	12/20/2019	01/30/2020	2020	41	Solar	Level 1
19-13887	12/20/2019	06/24/2020	2020	187	Solar	Level 4
19-13892	12/20/2019	03/13/2020	2020	84	Solar	Level 1
19-13893	12/20/2019	01/28/2020	2020	39	Solar	Level 1
19-13894	12/20/2019	02/21/2020	2020	63	Solar	Level 1
19-13895	12/20/2019	06/12/2020	2020	175	Solar	Level 1
19-13897	12/20/2019	12/18/2020	2020	364	Solar	Level 1
19-13898	12/20/2019	06/30/2020	2020	193	Solar	Level 1
19-13899	12/20/2019	02/07/2020	2020	49	Solar	Level 1
19-13901	12/23/2019	05/29/2020	2020	158	Solar	Level 1
19-13902	12/23/2019	10/06/2020	2020	288	Solar	Level 1
19-13903	12/23/2019	05/11/2020	2020	140	Solar	Level 1
19-13904	12/23/2019	03/17/2020	2020	85	Solar	Level 1
19-13905	12/23/2019	04/30/2020	2020	129	Solar	Level 1
19-13906	12/23/2019	03/10/2020	2020	78	Solar	Level 1

19-13908	12/23/2019	05/15/2020	2020	144	Solar	Level 1
19-13909	12/23/2019	05/15/2020	2020	144	Solar	Level 4
19-13910	12/23/2019	02/03/2020	2020	42	Solar	Level 1
19-13911	12/23/2019	08/14/2020	2020	235	Solar	Level 1
19-13916	12/23/2019	02/25/2020	2020	64	Solar	Level 1
19-13918	12/23/2019	05/19/2020	2020	148	Solar	Level 1
19-13919	12/24/2019	02/07/2020	2020	45	Solar	Level 1
19-13920	12/24/2019	03/06/2020	2020	73	Solar	Level 1
19-13921	12/24/2019	03/19/2020	2020	86	Solar	Level 1
19-13924	12/26/2019	03/18/2020	2020	83	Solar	Level 1
19-13925	12/26/2019	04/09/2020	2020	105	Solar	Level 1
19-13926	12/26/2019	08/20/2020	2020	238	Solar	Level 1
19-13928	12/26/2019	05/18/2020	2020	144	Solar	Level 1
19-13932	12/26/2019	03/13/2020	2020	78	Solar	Level 1
19-13935	12/26/2019	04/20/2020	2020	116	Solar	Level 1
19-13936	12/26/2019	03/23/2020	2020	88	Solar	Level 1
19-13937	12/26/2019	04/20/2020	2020	116	Solar	Level 1
19-13938	12/26/2019	09/13/2020	2020	262	Solar	Level 1
19-13939	12/26/2019	10/15/2020	2020	294	Solar	Level 1
19-13940	12/26/2019	08/17/2020	2020	235	Solar	Level 1
19-13942	12/26/2019	09/11/2020	2020	260	Solar	Level 1
19-13944	12/26/2019	08/20/2020	2020	238	Solar	Level 1
19-13945	12/26/2019	04/27/2020	2020	123	Solar	Level 1
19-13946	12/26/2019	03/10/2020	2020	75	Solar	Level 1
19-13947	12/26/2019	03/09/2020	2020	74	Solar	Level 1
19-13948	12/26/2019	04/27/2020	2020	123	Solar	Level 1
19-13951	12/26/2019	03/17/2020	2020	82	Solar	Level 1
19-13952	12/26/2019	04/14/2020	2020	110	Solar	Level 1
19-13953	12/26/2019	01/24/2020	2020	29	Solar	Level 1
19-13954	12/26/2019	04/23/2020	2020	119	Solar	Level 1
19-13956	12/26/2019	06/30/2020	2020	187	Solar	Level 1
19-13957	12/26/2019	04/15/2020	2020	111	Solar	Level 1
19-13958	12/26/2019	05/14/2020	2020	140	Solar	Level 1
19-13959	12/26/2019	02/17/2020	2020	53	Solar	Level 1
19-13961	12/27/2019	09/14/2020	2020	262	Solar	Level 1
19-13962	12/27/2019	08/06/2020	2020	223	Solar	Level 1
19-13963	12/27/2019	03/12/2020	2020	76	Solar	Level 1
19-13967	12/27/2019	03/23/2020	2020	87	Solar	Level 1
19-13968	12/27/2019	03/06/2020	2020	70	Solar	Level 1
19-13969	12/27/2019	04/20/2020	2020	115	Solar	Level 1
19-13971	12/27/2019	06/02/2020	2020	158	Solar	Level 1

19-13975	12/27/2019	03/12/2020	2020	76	Solar	Level 1
19-13976	12/27/2019	08/19/2020	2020	236	Solar	Level 1
19-13977	12/27/2019	02/25/2020	2020	60	Solar	Level 1
19-13978	12/27/2019	03/17/2020	2020	81	Solar	Level 1
19-13980	12/27/2019	06/02/2020	2020	158	Solar	Level 1
19-13981	12/27/2019	04/02/2020	2020	97	Solar	Level 1
19-13983	12/27/2019	05/14/2020	2020	139	Solar	Level 1
19-13984	12/27/2019	02/27/2020	2020	62	Solar	Level 1
19-13985	12/27/2019	01/02/2020	2020	6	Solar	Level 1
19-13986	12/27/2019	02/07/2020	2020	42	Solar	Level 1
19-13987	12/28/2019	03/26/2020	2020	89	Solar	Level 1
19-13988	12/29/2019	05/11/2020	2020	134	Solar	Level 1
19-13989	12/29/2019	01/12/2020	2020	14	Solar	Level 1
19-13991	12/30/2019	03/18/2020	2020	79	Solar	Level 1
19-13993	12/30/2019	05/27/2020	2020	149	Solar	Level 1
19-13995	12/30/2019	04/01/2020	2020	93	Solar	Level 1
19-13997	12/30/2019	02/13/2020	2020	45	Solar	Level 1
19-13999	12/30/2019	02/27/2020	2020	59	Solar	Level 1
19-14001	12/30/2019	01/02/2020	2020	3	Solar	Level 1
19-14002	12/30/2019	06/02/2020	2020	155	Solar	Level 1
19-14003	12/30/2019	05/11/2020	2020	133	Solar	Level 1
19-14004	12/30/2019	06/30/2020	2020	183	Solar	Level 2
19-14006	12/30/2019	05/19/2020	2020	141	Solar	Level 2
19-14008	12/30/2019	05/07/2020	2020	129	Solar	Level 1
19-14010	12/30/2019	09/17/2020	2020	262	Solar	Level 1
19-14012	12/30/2019	03/09/2020	2020	70	Solar	Level 1
19-14014	12/30/2019	10/07/2020	2020	282	Solar	Level 1
19-14015	12/30/2019	04/05/2020	2020	97	Solar	Level 1
19-14016	12/30/2019	04/16/2020	2020	108	Solar	Level 1
19-14017	12/30/2019	03/09/2020	2020	70	Solar	Level 1
19-14018	12/30/2019	04/16/2020	2020	108	Solar	Level 1
19-14019	12/30/2019	03/10/2020	2020	71	Solar	Level 1
19-14020	12/30/2019	03/06/2020	2020	67	Solar	Level 1
19-14021	12/30/2019	02/24/2020	2020	56	Solar	Level 1
19-14023	12/30/2019	03/09/2020	2020	70	Solar	Level 1
19-14024	12/31/2019	02/18/2020	2020	49	Solar	Level 1
19-14026	12/31/2019	04/13/2020	2020	104	Solar	Level 1
19-14027	12/31/2019	06/12/2020	2020	164	Solar	Level 1
19-14030	12/31/2019	04/13/2020	2020	104	Solar	Level 1
19-14033	12/31/2019	03/19/2020	2020	79	Solar	Level 1
19-14035	12/31/2019	01/14/2020	2020	14	Solar	Level 1

19-14037	12/31/2019	06/01/2020	2020	153	Solar	Level 1
19-14038	12/31/2019	04/06/2020	2020	97	Solar	Level 1
19-14041	12/31/2019	03/05/2020	2020	65	Solar	Level 1
19-14042	12/31/2019	03/05/2020	2020	65	Solar	Level 1
19-14043	12/31/2019	04/17/2020	2020	108	Solar	Level 1
19-14045	12/31/2019	02/28/2020	2020	59	Solar	Level 1
19-14046	11/21/2019	08/04/2020	2020	257	Solar	Level 1
20-00001	12/31/2019	03/10/2020	2020	70	Solar	Level 1
20-00002	01/02/2020	07/24/2020	2020	204	Solar	Level 1
20-00004	01/02/2020	05/27/2020	2020	146	Solar	Level 1
20-00005	01/02/2020	10/07/2020	2020	279	Solar	Level 1
20-00007	01/02/2020	04/24/2020	2020	113	Solar	Level 1
20-00008	01/02/2020	04/20/2020	2020	109	Solar	Level 1
20-00009	01/02/2020	03/17/2020	2020	75	Solar	Level 1
20-00010	01/02/2020	01/06/2020	2020	4	Solar	Level 1
20-00012	01/02/2020	08/06/2020	2020	217	Solar	Level 1
20-00013	01/02/2020	04/02/2020	2020	91	Solar	Level 1
20-00014	01/02/2020	05/06/2020	2020	125	Solar	Level 1
20-00016	01/02/2020	05/26/2020	2020	145	Solar	Level 1
20-00017	01/02/2020	08/20/2020	2020	231	Solar	Level 2
20-00018	01/02/2020	03/23/2020	2020	81	Solar	Level 1
20-00019	01/02/2020	03/06/2020	2020	64	Solar	Level 1
20-00021	01/02/2020	06/03/2020	2020	153	Solar	Level 1
20-00022	01/02/2020	05/06/2020	2020	125	Solar	Level 1
20-00023	01/02/2020	11/06/2020	2020	309	Solar	Level 1
20-00024	01/02/2020	10/01/2020	2020	273	Solar	Level 1
20-00025	01/02/2020	04/24/2020	2020	113	Solar	Level 1
20-00026	01/02/2020	04/17/2020	2020	106	Solar	Level 1
20-00028	01/02/2020	04/07/2020	2020	96	Solar	Level 1
20-00029	01/02/2020	04/02/2020	2020	91	Solar	Level 1
20-00031	01/02/2020	03/09/2020	2020	67	Solar	Level 1
20-00032	01/02/2020	03/26/2020	2020	84	Solar	Level 1
20-00033	01/02/2020	04/05/2020	2020	94	Solar	Level 1
20-00034	01/02/2020	01/17/2020	2020	15	Solar	Level 1
20-00035	01/02/2020	03/12/2020	2020	70	Solar	Level 1
20-00036	01/02/2020	03/30/2020	2020	88	Solar	Level 1
20-00037	01/02/2020	03/19/2020	2020	77	Solar	Level 1
20-00038	01/02/2020	08/10/2020	2020	221	Solar	Level 1
20-00039	01/02/2020	06/26/2020	2020	176	Solar	Level 1
20-00040	01/02/2020	04/20/2020	2020	109	Solar	Level 1
20-00041	01/02/2020	05/11/2020	2020	130	Solar	Level 1

20-00042	01/02/2020	03/05/2020	2020	63	Solar	Level 1
20-00043	01/02/2020	08/06/2020	2020	217	Solar	Level 1
20-00044	01/02/2020	09/08/2020	2020	250	Solar	Level 1
20-00045	01/02/2020	07/24/2020	2020	204	Solar	Level 1
20-00047	01/02/2020	05/04/2020	2020	123	Solar	Level 1
20-00048	01/02/2020	04/06/2020	2020	95	Solar	Level 1
20-00050	01/02/2020	04/13/2020	2020	102	Solar	Level 1
20-00051	01/02/2020	07/14/2020	2020	194	Solar	Level 1
20-00052	01/02/2020	05/18/2020	2020	137	Solar	Level 1
20-00053	01/02/2020	05/26/2020	2020	145	Solar	Level 1
20-00055	01/02/2020	04/14/2020	2020	103	Solar	Level 1
20-00056	01/02/2020	04/02/2020	2020	91	Solar	Level 1
20-00058	01/02/2020	04/29/2020	2020	118	Solar	Level 1
20-00059	01/02/2020	07/17/2020	2020	197	Solar	Level 1
20-00061	01/02/2020	05/18/2020	2020	137	Solar	Level 1
20-00062	01/02/2020	01/06/2020	2020	4	Solar	Level 1
20-00065	01/02/2020	04/07/2020	2020	96	Solar	Level 1
20-00066	01/02/2020	04/30/2020	2020	119	Solar	Level 1
20-00067	01/02/2020	10/07/2020	2020	279	Solar	Level 1
20-00069	01/02/2020	09/20/2020	2020	262	Solar	Level 1
20-00070	01/02/2020	09/09/2020	2020	251	Solar	Level 1
20-00071	01/02/2020	03/23/2020	2020	81	Solar	Level 1
20-00072	01/02/2020	03/05/2020	2020	63	Solar	Level 1
20-00076	01/03/2020	09/29/2020	2020	270	Solar	Level 1
20-00077	01/03/2020	06/02/2020	2020	151	Solar	Level 1
20-00079	01/03/2020	03/03/2020	2020	60	Solar	Level 1
20-00080	01/03/2020	04/07/2020	2020	95	Solar	Level 1
20-00083	01/03/2020	07/30/2020	2020	209	Solar	Level 1
20-00084	01/03/2020	06/03/2020	2020	152	Solar	Level 1
20-00085	01/03/2020	02/20/2020	2020	48	Solar	Level 1
20-00086	01/03/2020	12/07/2020	2020	339	Solar	Level 1
20-00087	01/03/2020	01/29/2020	2020	26	Solar	Level 1
20-00090	01/03/2020	03/20/2020	2020	77	Solar	Level 1
20-00091	01/03/2020	03/05/2020	2020	62	Solar	Level 1
20-00093	01/03/2020	08/21/2020	2020	231	Solar	Level 1
20-00094	01/03/2020	03/04/2020	2020	61	Solar	Level 1
20-00095	01/03/2020	05/04/2020	2020	122	Solar	Level 1
20-00097	01/03/2020	02/14/2020	2020	42	Solar	Level 1
20-00098	01/03/2020	03/06/2020	2020	63	Solar	Level 1
20-00099	01/03/2020	03/17/2020	2020	74	Solar	Level 1
20-00100	01/03/2020	04/01/2020	2020	89	Solar	Level 1

20-00101	01/03/2020	07/21/2020	2020	200	Solar	Level 1
20-00103	01/03/2020	08/20/2020	2020	230	Solar	Level 1
20-00104	01/03/2020	04/30/2020	2020	118	Solar	Level 4
20-00105	01/03/2020	03/17/2020	2020	74	Solar	Level 1
20-00108	01/03/2020	08/19/2020	2020	229	Solar	Level 1
20-00109	01/03/2020	10/12/2020	2020	283	Solar	Level 1
20-00110	01/03/2020	02/13/2020	2020	41	Solar	Level 1
20-00111	01/03/2020	08/14/2020	2020	224	Solar	Level 1
20-00112	01/03/2020	10/08/2020	2020	279	Solar	Level 1
20-00115	01/03/2020	08/20/2020	2020	230	Solar	Level 1
20-00117	01/03/2020	06/30/2020	2020	179	Solar	Level 1
20-00118	01/03/2020	06/15/2020	2020	164	Solar	Level 1
20-00119	01/06/2020	03/09/2020	2020	63	Solar	Level 1
20-00121	01/06/2020	11/25/2020	2020	324	Solar	Level 1
20-00122	01/06/2020	08/11/2020	2020	218	Solar	Level 1
20-00123	01/06/2020	03/17/2020	2020	71	Solar	Level 1
20-00124	01/06/2020	04/21/2020	2020	106	Solar	Level 1
20-00125	01/06/2020	03/17/2020	2020	71	Solar	Level 1
20-00126	01/06/2020	04/24/2020	2020	109	Solar	Level 1
20-00127	01/06/2020	02/17/2020	2020	42	Solar	Level 1
20-00128	01/06/2020	05/04/2020	2020	119	Solar	Level 2
20-00129	01/06/2020	06/24/2020	2020	170	Solar	Level 1
20-00130	01/06/2020	03/03/2020	2020	57	Solar	Level 1
20-00131	01/06/2020	06/07/2020	2020	153	Solar	Level 1
20-00132	01/06/2020	07/20/2020	2020	196	Solar	Level 1
20-00133	01/06/2020	03/06/2020	2020	60	Solar	Level 1
20-00136	01/06/2020	05/14/2020	2020	129	Solar	Level 1
20-00137	01/06/2020	02/26/2020	2020	51	Solar	Level 1
20-00138	01/06/2020	03/19/2020	2020	73	Solar	Level 1
20-00139	01/06/2020	07/13/2020	2020	189	Solar	Level 1
20-00140	01/06/2020	03/17/2020	2020	71	Solar	Level 1
20-00142	01/06/2020	02/10/2020	2020	35	Solar	Level 1
20-00143	01/06/2020	04/21/2020	2020	106	Solar	Level 1
20-00144	01/06/2020	04/21/2020	2020	106	Solar	Level 1
20-00146	01/06/2020	03/13/2020	2020	67	Solar	Level 1
20-00147	01/06/2020	02/17/2020	2020	42	Solar	Level 1
20-00148	01/06/2020	04/20/2020	2020	105	Solar	Level 1
20-00149	01/06/2020	08/10/2020	2020	217	Solar	Level 4
20-00151	01/06/2020	07/17/2020	2020	193	Solar	Level 1
20-00152	01/06/2020	06/19/2020	2020	165	Solar	Level 1
20-00153	01/06/2020	04/21/2020	2020	106	Solar	Level 1

20-00154	01/06/2020	05/04/2020	2020	119	Solar	Level 1
20-00156	01/06/2020	08/21/2020	2020	228	Solar	Level 1
20-00157	01/06/2020	07/20/2020	2020	196	Solar	Level 1
20-00158	01/06/2020	04/07/2020	2020	92	Solar	Level 2
20-00159	01/06/2020	04/07/2020	2020	92	Solar	Level 1
20-00160	01/06/2020	03/19/2020	2020	73	Solar	Level 1
20-00161	01/06/2020	03/19/2020	2020	73	Solar	Level 1
20-00162	01/06/2020	08/14/2020	2020	221	Solar	Level 1
20-00164	01/07/2020	08/26/2020	2020	232	Solar	Level 1
20-00165	01/07/2020	04/02/2020	2020	86	Solar	Level 1
20-00168	01/07/2020	04/01/2020	2020	85	Solar	Level 1
20-00170	01/07/2020	02/26/2020	2020	50	Solar	Level 1
20-00171	01/07/2020	04/08/2020	2020	92	Solar	Level 1
20-00172	01/07/2020	03/17/2020	2020	70	Solar	Level 1
20-00173	01/07/2020	05/24/2020	2020	138	Solar	Level 1
20-00176	01/07/2020	05/21/2020	2020	135	Solar	Level 1
20-00177	01/07/2020	05/07/2020	2020	121	Solar	Level 1
20-00178	01/07/2020	03/05/2020	2020	58	Solar	Level 1
20-00179	01/07/2020	06/29/2020	2020	174	Solar	Level 1
20-00180	01/07/2020	09/20/2020	2020	257	Solar	Level 1
20-00183	01/07/2020	04/27/2020	2020	111	Solar	Level 1
20-00186	01/07/2020	02/19/2020	2020	43	Solar	Level 1
20-00187	01/07/2020	03/06/2020	2020	59	Solar	Level 1
20-00189	01/07/2020	06/19/2020	2020	164	Solar	Level 1
20-00190	01/07/2020	04/07/2020	2020	91	Solar	Level 1
20-00191	01/07/2020	06/01/2020	2020	146	Solar	Level 1
20-00192	01/07/2020	03/12/2020	2020	65	Solar	Level 1
20-00193	01/07/2020	03/12/2020	2020	65	Solar	Level 1
20-00194	01/07/2020	12/14/2020	2020	342	Solar	Level 1
20-00196	01/07/2020	05/08/2020	2020	122	Solar	Level 1
20-00197	01/07/2020	06/15/2020	2020	160	Solar	Level 1
20-00199	01/07/2020	05/11/2020	2020	125	Solar	Level 1
20-00200	01/07/2020	08/14/2020	2020	220	Solar	Level 1
20-00201	01/07/2020	10/13/2020	2020	280	Solar	Level 1
20-00202	01/07/2020	04/06/2020	2020	90	Solar	Level 1
20-00204	01/07/2020	03/19/2020	2020	72	Solar	Level 1
20-00207	01/08/2020	10/22/2020	2020	288	Solar	Level 1
20-00209	01/08/2020	03/31/2020	2020	83	Solar	Level 1
20-00210	01/08/2020	03/19/2020	2020	71	Solar	Level 1
20-00211	01/08/2020	04/28/2020	2020	111	Solar	Level 1
20-00212	01/08/2020	04/22/2020	2020	105	Solar	Level 1

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20-00214	01/08/2020	08/20/2020	2020	225	Solar	Level 1
20-00215	01/08/2020	05/27/2020	2020	140	Solar	Level 1
20-00216	01/08/2020	06/30/2020	2020	174	Solar	Level 1
20-00217	01/08/2020	09/19/2020	2020	255	Solar	Level 1
20-00219	01/08/2020	08/18/2020	2020	223	Solar	Level 1
20-00220	01/08/2020	02/27/2020	2020	50	Solar	Level 1
20-00221	01/08/2020	05/26/2020	2020	139	Solar	Level 1
20-00222	01/08/2020	03/31/2020	2020	83	Solar	Level 1
20-00223	01/08/2020	05/07/2020	2020	120	Solar	Level 1
20-00224	01/08/2020	06/11/2020	2020	155	Solar	Level 1
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20-00226	01/08/2020	02/18/2020	2020	41	Solar	Level 1
20-00227	01/08/2020	02/07/2020	2020	30	Solar	Level 2
20-00228	01/08/2020	02/19/2020	2020	42	Solar	Level 1
20-00229	01/09/2020	06/05/2020	2020	148	Solar	Level 1
20-00230	01/09/2020	04/13/2020	2020	95	Solar	Level 1
20-00231	01/09/2020	08/21/2020	2020	225	Solar	Level 1
20-00232	01/09/2020	07/22/2020	2020	195	Solar	Level 1
20-00235	01/09/2020	12/10/2020	2020	336	Solar	Level 1
20-00237	01/09/2020	07/21/2020	2020	194	Solar	Level 1
20-00238	01/09/2020	03/19/2020	2020	70	Solar	Level 1
20-00239	01/09/2020	07/31/2020	2020	204	Solar	Level 1
20-00240	01/09/2020	02/13/2020	2020	35	Solar	Level 1
20-00241	01/09/2020	02/19/2020	2020	41	Solar	Level 1
20-00244	01/09/2020	03/19/2020	2020	70	Solar	Level 1
20-00245	01/09/2020	03/17/2020	2020	68	Solar	Level 1
20-00246	01/09/2020	03/17/2020	2020	68	Solar	Level 1
20-00247	01/09/2020	03/24/2020	2020	75	Solar	Level 1
20-00248	01/09/2020	02/25/2020	2020	47	Solar	Level 1
20-00249	01/09/2020	03/04/2020	2020	55	Solar	Level 1
20-00250	01/09/2020	04/20/2020	2020	102	Solar	Level 1
20-00252	01/09/2020	02/18/2020	2020	40	Solar	Level 1
20-00253	01/09/2020	05/08/2020	2020	120	Solar	Level 1
20-00254	01/09/2020	11/12/2020	2020	308	Solar	Level 1
20-00255	01/09/2020	04/27/2020	2020	109	Solar	Level 1
20-00256	01/09/2020	03/19/2020	2020	70	Solar	Level 1
20-00257	01/09/2020	06/06/2020	2020	149	Solar	Level 1
20-00258	01/09/2020	04/13/2020	2020	95	Solar	Level 1
20-00259	01/09/2020	03/19/2020	2020	70	Solar	Level 1
20-00260	01/09/2020	06/15/2020	2020	158	Solar	Level 1

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20-00262	01/09/2020	04/07/2020	2020	89	Solar	Level 1
20-00264	01/09/2020	04/09/2020	2020	91	Solar	Level 1
20-00265	01/09/2020	03/12/2020	2020	63	Solar	Level 1
20-00266	01/09/2020	06/17/2020	2020	160	Solar	Level 1
20-00267	01/09/2020	03/03/2020	2020	54	Solar	Level 1
20-00268	01/09/2020	06/29/2020	2020	172	Solar	Level 1
20-00270	01/10/2020	11/19/2020	2020	314	Solar	Level 1
20-00271	01/10/2020	05/27/2020	2020	138	Solar	Level 1
20-00272	01/10/2020	05/26/2020	2020	137	Solar	Level 1
20-00275	01/10/2020	02/13/2020	2020	34	Solar	Level 1
20-00276	01/10/2020	03/06/2020	2020	56	Solar	Level 1
20-00278	01/10/2020	03/17/2020	2020	67	Solar	Level 1
20-00279	01/10/2020	04/20/2020	2020	101	Solar	Level 1
20-00280	01/10/2020	03/12/2020	2020	62	Solar	Level 1
20-00282	01/10/2020	02/26/2020	2020	47	Solar	Level 1
20-00283	01/10/2020	08/23/2020	2020	226	Solar	Level 1
20-00284	01/10/2020	04/21/2020	2020	102	Solar	Level 1
20-00285	01/10/2020	05/01/2020	2020	112	Solar	Level 1
20-00286	01/10/2020	03/12/2020	2020	62	Solar	Level 1
20-00287	01/10/2020	03/19/2020	2020	69	Solar	Level 1
20-00288	01/10/2020	12/08/2020	2020	333	Solar	Level 1
20-00289	01/10/2020	03/19/2020	2020	69	Solar	Level 1
20-00290	01/10/2020	04/16/2020	2020	97	Solar	Level 1
20-00291	01/10/2020	08/04/2020	2020	207	Solar	Level 1
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20-00294	01/10/2020	12/29/2020	2020	354	Solar	Level 1
20-00295	01/10/2020	03/04/2020	2020	54	Solar	Level 1
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20-00298	01/10/2020	07/17/2020	2020	189	Solar	Level 1
20-00300	01/10/2020	06/30/2020	2020	172	Solar	Level 1
20-00301	01/10/2020	03/19/2020	2020	69	Solar	Level 1
20-00302	01/10/2020	09/15/2020	2020	249	Solar	Level 1
20-00304	01/10/2020	03/06/2020	2020	56	Solar	Level 1
20-00306	01/10/2020	05/06/2020	2020	117	Solar	Level 1
20-00307	01/10/2020	04/16/2020	2020	97	Solar	Level 1
20-00309	01/10/2020	03/13/2020	2020	63	Solar	Level 1
20-00310	01/10/2020	08/18/2020	2020	221	Solar	Level 1
20-00311	01/10/2020	06/24/2020	2020	166	Solar	Level 1
20-00312	01/10/2020	04/01/2020	2020	82	Solar	Level 1

20-00314	01/10/2020	03/19/2020	2020	69	Solar	Level 1
20-00315	01/10/2020	04/23/2020	2020	104	Solar	Level 1
20-00316	01/10/2020	07/31/2020	2020	203	Solar	Level 1
20-00317	01/10/2020	06/04/2020	2020	146	Solar	Level 1
20-00318	01/10/2020	04/23/2020	2020	104	Solar	Level 1
20-00319	01/10/2020	01/14/2020	2020	4	Solar	Level 1
20-00320	01/10/2020	03/17/2020	2020	67	Solar	Level 1
20-00321	01/10/2020	10/20/2020	2020	284	Solar	Level 2
20-00323	01/10/2020	01/16/2020	2020	6	Solar	Level 1
20-00324	01/10/2020	03/25/2020	2020	75	Solar	Level 1
20-00326	01/10/2020	04/21/2020	2020	102	Solar	Level 1
20-00327	01/10/2020	02/06/2020	2020	27	Solar	Level 1
20-00329	01/10/2020	03/30/2020	2020	80	Solar	Level 1
20-00330	01/10/2020	04/21/2020	2020	102	Solar	Level 1
20-00331	01/11/2020	05/27/2020	2020	137	Solar	Level 1
20-00332	01/11/2020	10/22/2020	2020	285	Solar	Level 1
20-00335	01/11/2020	04/14/2020	2020	94	Solar	Level 1
20-00336	01/11/2020	05/07/2020	2020	117	Solar	Level 1
20-00338	01/11/2020	04/20/2020	2020	100	Solar	Level 1
20-00339	01/11/2020	07/20/2020	2020	191	Solar	Level 1
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20-00342	01/13/2020	04/07/2020	2020	85	Solar	Level 1
20-00343	01/13/2020	03/19/2020	2020	66	Solar	Level 1
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20-00348	01/13/2020	05/21/2020	2020	129	Solar	Level 1
20-00349	01/13/2020	06/03/2020	2020	142	Solar	Level 1
20-00350	01/13/2020	06/07/2020	2020	146	Solar	Level 1
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20-00355	01/13/2020	01/16/2020	2020	3	Solar	Level 1
20-00357	01/13/2020	04/13/2020	2020	91	Solar	Level 1
20-00358	01/13/2020	03/17/2020	2020	64	Solar	Level 1
20-00359	01/13/2020	06/05/2020	2020	144	Solar	Level 1
20-00360	01/13/2020	05/21/2020	2020	129	Solar	Level 1
20-00362	01/13/2020	06/17/2020	2020	156	Solar	Level 1
20-00365	01/13/2020	04/26/2020	2020	104	Solar	Level 4
20-00366	01/13/2020	03/16/2020	2020	63	Solar	Level 1
20-00367	01/13/2020	04/16/2020	2020	94	Solar	Level 1
20-00368	01/13/2020	11/05/2020	2020	297	Solar	Level 2

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20-00384	01/13/2020	06/01/2020	2020	140	Solar	Level 1
20-00385	01/13/2020	04/27/2020	2020	105	Solar	Level 1
20-00386	01/14/2020	05/26/2020	2020	133	Solar	Level 1
20-00387	01/14/2020	06/01/2020	2020	139	Solar	Level 1
20-00388	01/14/2020	09/03/2020	2020	233	Solar	Level 1
20-00389	01/14/2020	06/17/2020	2020	155	Solar	Level 1
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20-00408	01/14/2020	09/08/2020	2020	238	Solar	Level 1
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20-00412	01/14/2020	04/07/2020	2020	84	Solar	Level 1
20-00416	01/14/2020	06/29/2020	2020	167	Solar	Level 1
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20-00418	01/14/2020	06/24/2020	2020	162	Solar	Level 1
20-00420	01/14/2020	06/03/2020	2020	141	Solar	Level 1
20-00421	01/14/2020	05/07/2020	2020	114	Solar	Level 1
20-00422	01/14/2020	05/12/2020	2020	119	Solar	Level 1
20-00423	01/15/2020	04/13/2020	2020	89	Solar	Level 1
20-00424	01/15/2020	06/17/2020	2020	154	Solar	Level 1
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20-00426	01/15/2020	03/05/2020	2020	50	Solar	Level 1

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20-00431	01/15/2020	05/21/2020	2020	127	Solar	Level 1
20-00433	01/15/2020	08/06/2020	2020	204	Solar	Level 1
20-00434	01/15/2020	04/29/2020	2020	105	Solar	Level 1
20-00436	01/15/2020	08/14/2020	2020	212	Solar	Level 1
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20-00438	01/15/2020	03/12/2020	2020	57	Solar	Level 1
20-00439	01/15/2020	04/14/2020	2020	90	Solar	Level 1
20-00441	01/15/2020	08/11/2020	2020	209	Solar	Level 1
20-00442	01/15/2020	10/08/2020	2020	267	Solar	Level 2
20-00444	01/15/2020	03/19/2020	2020	64	Solar	Level 1
20-00445	01/15/2020	06/30/2020	2020	167	Solar	Level 1
20-00447	01/15/2020	08/21/2020	2020	219	Solar	Level 1
20-00448	01/16/2020	08/13/2020	2020	210	Solar	Level 1
20-00449	01/16/2020	07/21/2020	2020	187	Solar	Level 1
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20-00453	01/16/2020	03/30/2020	2020	74	Solar	Level 1
20-00454	01/16/2020	07/28/2020	2020	194	Solar	Level 1
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20-00460	01/16/2020	11/23/2020	2020	312	Solar	Level 2
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20-00462	01/16/2020	03/17/2020	2020	61	Solar	Level 1
20-00463	01/16/2020	02/27/2020	2020	42	Solar	Level 1
20-00464	01/16/2020	03/26/2020	2020	70	Solar	Level 1
20-00465	01/16/2020	07/24/2020	2020	190	Solar	Level 1
20-00467	01/16/2020	04/13/2020	2020	88	Solar	Level 1
20-00470	01/16/2020	03/10/2020	2020	54	Solar	Level 1
20-00471	01/16/2020	02/13/2020	2020	28	Solar	Level 1
20-00472	01/16/2020	03/17/2020	2020	61	Solar	Level 1
20-00473	01/16/2020	06/29/2020	2020	165	Solar	Level 1
20-00474	01/16/2020	02/28/2020	2020	43	Solar	Level 1
20-00476	01/16/2020	08/27/2020	2020	224	Solar	Level 1
20-00477	01/16/2020	03/17/2020	2020	61	Solar	Level 1
20-00479	01/16/2020	04/07/2020	2020	82	Solar	Level 1
20-00484	01/16/2020	03/03/2020	2020	47	Solar	Level 1
20-00486	01/16/2020	04/02/2020	2020	77	Solar	Level 1

20-00488	01/16/2020	08/21/2020	2020	218	Solar	Level 1
20-00489	01/17/2020	06/11/2020	2020	146	Solar	Level 1
20-00490	01/17/2020	03/18/2020	2020	61	Solar	Level 1
20-00491	01/17/2020	04/15/2020	2020	89	Storage	Level 1
20-00492	01/17/2020	03/17/2020	2020	60	Solar	Level 1
20-00493	01/17/2020	03/05/2020	2020	48	Solar	Level 1
20-00495	01/17/2020	08/06/2020	2020	202	Solar	Level 1
20-00496	01/17/2020	03/17/2020	2020	60	Solar	Level 1
20-00497	01/17/2020	02/19/2020	2020	33	Solar	Level 1
20-00498	01/17/2020	05/11/2020	2020	115	Solar	Level 1
20-00499	01/17/2020	03/06/2020	2020	49	Solar	Level 1
20-00500	01/17/2020	08/21/2020	2020	217	Solar	Level 1
20-00501	01/17/2020	04/24/2020	2020	98	Solar	Level 1
20-00502	01/17/2020	02/27/2020	2020	41	Solar	Level 1
20-00503	01/17/2020	05/14/2020	2020	118	Solar	Level 1
20-00505	01/17/2020	05/11/2020	2020	115	Solar	Level 1
20-00507	01/17/2020	05/21/2020	2020	125	Solar	Level 1
20-00509	01/17/2020	11/25/2020	2020	313	Solar	Level 1
20-00510	01/17/2020	08/08/2020	2020	204	Solar	Level 1
20-00512	01/17/2020	03/31/2020	2020	74	Solar	Level 1
20-00514	01/17/2020	07/24/2020	2020	189	Solar	Level 1
20-00516	01/17/2020	06/29/2020	2020	164	Solar	Level 1
20-00517	01/17/2020	05/26/2020	2020	130	Solar	Level 1
20-00518	01/17/2020	03/30/2020	2020	73	Solar	Level 1
20-00521	01/17/2020	09/06/2020	2020	233	Solar	Level 1
20-00522	01/17/2020	09/17/2020	2020	244	Solar	Level 1
20-00523	01/17/2020	04/14/2020	2020	88	Solar	Level 1
20-00524	01/17/2020	09/10/2020	2020	237	Solar	Level 1
20-00526	01/17/2020	04/14/2020	2020	88	Solar	Level 1
20-00527	01/17/2020	07/28/2020	2020	193	Solar	Level 1
20-00530	01/17/2020	08/21/2020	2020	217	Solar	Level 1
20-00531	01/17/2020	08/10/2020	2020	206	Solar	Level 1
20-00532	01/17/2020	05/20/2020	2020	124	Solar	Level 1
20-00535	01/17/2020	03/08/2020	2020	51	Solar	Level 1
20-00536	01/17/2020	01/25/2020	2020	8	Solar	Level 1
20-00541	01/18/2020	04/27/2020	2020	100	Solar	Level 1
20-00542	01/18/2020	09/23/2020	2020	249	Solar	Level 1
20-00543	01/18/2020	08/20/2020	2020	215	Solar	Level 1
20-00544	01/19/2020	02/24/2020	2020	36	Solar	Level 1
20-00546	01/20/2020	03/16/2020	2020	56	Solar	Level 1
20-00547	01/20/2020	04/07/2020	2020	78	Solar	Level 1

20-00548	01/20/2020	05/15/2020	2020	116	Solar	Level 1
20-00549	01/20/2020	05/19/2020	2020	120	Solar	Level 1
20-00550	01/20/2020	03/16/2020	2020	56	Solar	Level 1
20-00551	01/20/2020	03/17/2020	2020	57	Solar	Level 1
20-00552	01/20/2020	06/04/2020	2020	136	Solar	Level 1
20-00553	01/20/2020	11/06/2020	2020	291	Solar	Level 1
20-00554	01/20/2020	04/27/2020	2020	98	Solar	Level 1
20-00559	01/20/2020	05/18/2020	2020	119	Solar	Level 1
20-00560	01/20/2020	08/13/2020	2020	206	Solar	Level 1
20-00562	01/20/2020	02/12/2020	2020	23	Solar	Level 1
20-00564	01/20/2020	05/04/2020	2020	105	Solar	Level 1
20-00565	01/20/2020	03/24/2020	2020	64	Solar	Level 1
20-00566	01/20/2020	04/14/2020	2020	85	Solar	Level 1
20-00567	01/20/2020	08/02/2020	2020	195	Solar	Level 1
20-00568	01/20/2020	03/27/2020	2020	67	Solar	Level 1
20-00569	01/20/2020	04/27/2020	2020	98	Solar	Level 1
20-00571	01/20/2020	11/04/2020	2020	289	Solar	Level 1
20-00573	01/21/2020	05/11/2020	2020	111	Solar	Level 1
20-00574	01/21/2020	05/08/2020	2020	108	Solar	Level 1
20-00575	01/21/2020	08/10/2020	2020	202	Solar	Level 1
20-00576	01/21/2020	09/11/2020	2020	234	Solar	Level 1
20-00577	01/21/2020	04/02/2020	2020	72	Solar	Level 1
20-00578	01/21/2020	02/20/2020	2020	30	Solar	Level 1
20-00580	01/21/2020	07/09/2020	2020	170	Solar	Level 1
20-00581	01/21/2020	04/13/2020	2020	83	Solar	Level 1
20-00583	01/21/2020	06/14/2020	2020	145	Solar	Level 1
20-00585	01/21/2020	03/06/2020	2020	45	Solar	Level 1
20-00586	01/21/2020	06/22/2020	2020	153	Solar	Level 1
20-00587	01/21/2020	04/17/2020	2020	87	Solar	Level 1
20-00588	01/21/2020	11/17/2020	2020	301	Solar	Level 2
20-00589	01/21/2020	07/17/2020	2020	178	Solar	Level 1
20-00590	01/21/2020	04/15/2020	2020	85	Solar	Level 1
20-00591	01/21/2020	04/26/2020	2020	96	Solar	Level 1
20-00593	01/21/2020	04/13/2020	2020	83	Solar	Level 1
20-00594	01/21/2020	03/12/2020	2020	51	Solar	Level 1
20-00597	01/22/2020	04/16/2020	2020	85	Solar	Level 1
20-00598	01/22/2020	03/05/2020	2020	43	Solar	Level 1
20-00599	01/22/2020	07/24/2020	2020	184	Solar	Level 1
20-00602	01/22/2020	11/15/2020	2020	298	Solar	Level 1
20-00603	01/22/2020	07/22/2020	2020	182	Solar	Level 1
20-00604	01/22/2020	06/30/2020	2020	160	Solar	Level 1

20-00605	01/22/2020	07/02/2020	2020	162	Solar	Level 1
20-00606	01/22/2020	08/20/2020	2020	211	Solar	Level 1
20-00607	01/22/2020	12/08/2020	2020	321	Solar	Level 2
20-00609	01/22/2020	04/30/2020	2020	99	Solar	Level 1
20-00611	01/22/2020	09/14/2020	2020	236	Solar	Level 2
20-00612	01/22/2020	03/16/2020	2020	54	Solar	Level 1
20-00613	01/22/2020	06/01/2020	2020	131	Solar	Level 1
20-00614	01/22/2020	03/18/2020	2020	56	Solar	Level 1
20-00615	01/22/2020	09/24/2020	2020	246	Solar	Level 2
20-00616	01/22/2020	06/04/2020	2020	134	Solar	Level 1
20-00617	01/22/2020	03/17/2020	2020	55	Solar	Level 1
20-00619	01/22/2020	03/17/2020	2020	55	Solar	Level 1
20-00620	01/22/2020	05/27/2020	2020	126	Solar	Level 1
20-00621	01/22/2020	12/17/2020	2020	330	Solar	Level 2
20-00622	01/22/2020	10/14/2020	2020	266	Solar	Level 1
20-00623	01/22/2020	03/27/2020	2020	65	Solar	Level 1
20-00625	01/22/2020	03/09/2020	2020	47	Solar	Level 1
20-00628	01/22/2020	03/23/2020	2020	61	Solar	Level 1
20-00629	01/22/2020	09/10/2020	2020	232	Solar	Level 2
20-00630	01/22/2020	04/13/2020	2020	82	Solar	Level 1
20-00631	01/22/2020	06/22/2020	2020	152	Solar	Level 1
20-00632	01/22/2020	05/12/2020	2020	111	Solar	Level 1
20-00633	01/22/2020	03/09/2020	2020	47	Solar	Level 1
20-00635	01/22/2020	05/15/2020	2020	114	Solar	Level 1
20-00639	01/22/2020	05/11/2020	2020	110	Solar	Level 1
20-00640	01/22/2020	04/24/2020	2020	93	Solar	Level 1
20-00641	01/22/2020	07/23/2020	2020	183	Solar	Level 1
20-00642	01/22/2020	09/23/2020	2020	245	Solar	Level 1
20-00643	01/22/2020	06/18/2020	2020	148	Solar	Level 1
20-00644	01/22/2020	06/25/2020	2020	155	Solar	Level 1
20-00645	01/22/2020	04/08/2020	2020	77	Solar	Level 1
20-00646	01/22/2020	06/29/2020	2020	159	Solar	Level 2
20-00647	01/22/2020	06/30/2020	2020	160	Solar	Level 1
20-00648	01/22/2020	02/19/2020	2020	28	Solar	Level 1
20-00649	01/22/2020	03/17/2020	2020	55	Solar	Level 1
20-00650	01/22/2020	06/12/2020	2020	142	Solar	Level 1
20-00651	01/22/2020	04/02/2020	2020	71	Solar	Level 1
20-00652	01/22/2020	04/13/2020	2020	82	Solar	Level 1
20-00653	01/22/2020	04/13/2020	2020	82	Solar	Level 1
20-00657	01/22/2020	03/27/2020	2020	65	Solar	Level 1
20-00658	01/22/2020	03/12/2020	2020	50	Solar	Level 1

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20-00662	01/23/2020	06/29/2020	2020	158	Solar	Level 1
20-00663	01/23/2020	08/20/2020	2020	210	Solar	Level 4
20-00664	01/23/2020	06/12/2020	2020	141	Solar	Level 1
20-00665	01/23/2020	04/07/2020	2020	75	Solar	Level 1
20-00666	01/23/2020	06/05/2020	2020	134	Solar	Level 1
20-00668	01/23/2020	08/11/2020	2020	201	Solar	Level 1
20-00669	01/23/2020	09/22/2020	2020	243	Solar	Level 1
20-00670	01/23/2020	04/06/2020	2020	74	Solar	Level 1
20-00671	01/23/2020	08/14/2020	2020	204	Solar	Level 1
20-00672	01/23/2020	06/12/2020	2020	141	Solar	Level 1
20-00673	01/23/2020	03/17/2020	2020	54	Solar	Level 1
20-00674	01/23/2020	09/08/2020	2020	229	Solar	Level 1
20-00675	01/23/2020	06/05/2020	2020	134	Solar	Level 1
20-00676	01/23/2020	12/02/2020	2020	314	Solar	Level 1
20-00677	01/23/2020	08/19/2020	2020	209	Solar	Level 1
20-00679	01/23/2020	09/28/2020	2020	249	Solar	Level 1
20-00680	01/23/2020	05/19/2020	2020	117	Solar	Level 1
20-00681	01/23/2020	02/09/2020	2020	17	Solar	Level 1
20-00684	01/23/2020	07/13/2020	2020	172	Solar	Level 1
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20-00686	01/23/2020	05/19/2020	2020	117	Solar	Level 1
20-00687	01/23/2020	07/30/2020	2020	189	Solar	Level 1
20-00689	01/23/2020	04/13/2020	2020	81	Solar	Level 1
20-00690	01/23/2020	04/29/2020	2020	97	Solar	Level 1
20-00692	01/23/2020	12/01/2020	2020	313	Solar	Level 1
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20-00701	01/23/2020	08/06/2020	2020	196	Solar	Level 1
20-00702	01/23/2020	06/07/2020	2020	136	Solar	Level 1
20-00703	01/23/2020	04/17/2020	2020	85	Solar	Level 1
20-00704	01/23/2020	06/14/2020	2020	143	Solar	Level 1
20-00706	01/23/2020	07/07/2020	2020	166	Solar	Level 1
20-00708	01/23/2020	03/02/2020	2020	39	Solar	Level 1
20-00711	01/23/2020	08/11/2020	2020	201	Solar	Level 1
20-00713	01/23/2020	03/17/2020	2020	54	Solar	Level 1
20-00715	01/23/2020	08/08/2020	2020	198	Solar	Level 1
20-00719	01/23/2020	06/19/2020	2020	148	Solar	Level 1

20-00720	01/23/2020	07/23/2020	2020	182	Solar	Level 1
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20-00724	01/24/2020	06/03/2020	2020	131	Solar	Level 1
20-00725	01/24/2020	09/25/2020	2020	245	Solar	Level 1
20-00726	01/24/2020	06/12/2020	2020	140	Solar	Level 1
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20-00736	01/24/2020	08/17/2020	2020	206	Solar	Level 1
20-00737	01/24/2020	03/13/2020	2020	49	Solar	Level 1
20-00739	01/24/2020	09/03/2020	2020	223	Solar	Level 1
20-00740	01/24/2020	06/05/2020	2020	133	Solar	Level 1
20-00741	01/24/2020	10/12/2020	2020	262	Solar	Level 1
20-00742	01/24/2020	06/29/2020	2020	157	Solar	Level 1
20-00743	01/24/2020	04/23/2020	2020	90	Solar	Level 1
20-00745	01/24/2020	03/17/2020	2020	53	Solar	Level 1
20-00747	01/24/2020	06/01/2020	2020	129	Solar	Level 1
20-00748	01/24/2020	11/16/2020	2020	297	Solar	Level 4
20-00749	01/24/2020	05/08/2020	2020	105	Solar	Level 1
20-00751	01/24/2020	05/28/2020	2020	125	Solar	Level 1
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20-00762	01/25/2020	02/07/2020	2020	13	Solar	Level 1
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20-00768	01/27/2020	03/17/2020	2020	50	Solar	Level 1
20-00769	01/27/2020	09/15/2020	2020	232	Solar	Level 1
20-00770	01/27/2020	02/21/2020	2020	25	Solar	Level 1
20-00771	01/27/2020	11/12/2020	2020	290	Storage	Level 1
20-00772	01/27/2020	04/27/2020	2020	91	Solar	Level 1
20-00775	01/27/2020	04/20/2020	2020	84	Solar	Level 1
20-00776	01/27/2020	02/04/2020	2020	8	Solar	Level 1
20-00777	01/27/2020	03/31/2020	2020	64	Solar	Level 1
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20-00783	01/27/2020	06/26/2020	2020	151	Solar	Level 1
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20-00786	01/27/2020	06/02/2020	2020	127	Solar	Level 1
20-00787	01/27/2020	10/02/2020	2020	249	Solar	Level 1
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20-00790	01/27/2020	05/15/2020	2020	109	Solar	Level 1
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20-00796	01/27/2020	05/19/2020	2020	113	Solar	Level 1
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20-00801	01/27/2020	10/06/2020	2020	253	Solar	Level 2
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20-00806	01/27/2020	07/21/2020	2020	176	Solar	Level 1
20-00807	01/27/2020	06/24/2020	2020	149	Solar	Level 1
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20-00829	01/28/2020	06/29/2020	2020	153	Solar	Level 1
20-00832	01/28/2020	05/06/2020	2020	99	Solar	Level 1
20-00834	01/28/2020	04/14/2020	2020	77	Solar	Level 1
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20-00862	01/28/2020	06/18/2020	2020	142	Solar	Level 1
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20-00869	01/29/2020	10/19/2020	2020	264	Solar	Level 1
20-00870	01/29/2020	07/22/2020	2020	175	Solar	Level 1
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20-00876	01/29/2020	10/06/2020	2020	251	Solar	Level 1
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20-00878	01/29/2020	06/02/2020	2020	125	Solar	Level 1
20-00879	01/29/2020	08/13/2020	2020	197	Solar	Level 1
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20-00883	01/29/2020	04/07/2020	2020	69	Solar	Level 1
20-00885	01/29/2020	03/18/2020	2020	49	Solar	Level 1
20-00888	01/29/2020	06/07/2020	2020	130	Solar	Level 1
20-00889	01/29/2020	02/24/2020	2020	26	Solar	Level 1
20-00891	01/29/2020	04/02/2020	2020	64	Solar	Level 1
20-00892	01/29/2020	10/15/2020	2020	260	Solar	Level 1
20-00893	01/29/2020	08/05/2020	2020	189	Solar	Level 1
20-00894	01/29/2020	07/31/2020	2020	184	Solar	Level 1
20-00896	01/29/2020	03/31/2020	2020	62	Solar	Level 1
20-00897	01/29/2020	08/21/2020	2020	205	Solar	Level 1
20-00898	01/29/2020	08/21/2020	2020	205	Solar	Level 1
20-00899	01/29/2020	02/25/2020	2020	27	Solar	Level 1

20-00900	01/29/2020	06/07/2020	2020	130	Solar	Level 1
20-00901	01/29/2020	03/12/2020	2020	43	Solar	Level 1
20-00902	01/29/2020	06/22/2020	2020	145	Solar	Level 1
20-00903	01/29/2020	06/19/2020	2020	142	Solar	Level 4
20-00904	01/29/2020	04/13/2020	2020	75	Solar	Level 1
20-00905	01/29/2020	09/20/2020	2020	235	Solar	Level 1
20-00906	01/29/2020	07/29/2020	2020	182	Solar	Level 1
20-00907	01/29/2020	05/11/2020	2020	103	Solar	Level 1
20-00908	01/29/2020	04/07/2020	2020	69	Solar	Level 1
20-00909	01/29/2020	05/08/2020	2020	100	Solar	Level 1
20-00911	01/29/2020	04/21/2020	2020	83	Solar	Level 1
20-00912	01/29/2020	05/26/2020	2020	118	Solar	Level 1
20-00914	01/29/2020	04/24/2020	2020	86	Solar	Level 1
20-00915	01/29/2020	03/19/2020	2020	50	Solar	Level 1
20-00916	01/29/2020	04/27/2020	2020	89	Solar	Level 1
20-00918	01/29/2020	05/07/2020	2020	99	Solar	Level 1
20-00919	01/29/2020	05/26/2020	2020	118	Solar	Level 1
20-00920	01/29/2020	04/20/2020	2020	82	Solar	Level 1
20-00921	01/29/2020	05/27/2020	2020	119	Solar	Level 1
20-00925	01/29/2020	08/06/2020	2020	190	Solar	Level 1
20-00926	01/29/2020	08/20/2020	2020	204	Solar	Level 1
20-00927	01/29/2020	04/13/2020	2020	75	Solar	Level 1
20-00929	01/30/2020	10/22/2020	2020	266	Solar	Level 1
20-00930	01/30/2020	08/21/2020	2020	204	Solar	Level 1
20-00932	01/30/2020	10/28/2020	2020	272	Solar	Level 1
20-00933	01/30/2020	07/30/2020	2020	182	Solar	Level 1
20-00937	01/30/2020	03/31/2020	2020	61	Solar	Level 1
20-00938	01/30/2020	08/05/2020	2020	188	Solar	Level 1
20-00939	01/30/2020	03/17/2020	2020	47	Solar	Level 1
20-00941	01/30/2020	03/20/2020	2020	50	Solar	Level 1
20-00944	01/30/2020	04/09/2020	2020	70	Solar	Level 1
20-00945	01/30/2020	05/20/2020	2020	111	Solar	Level 1
20-00946	01/30/2020	03/17/2020	2020	47	Solar	Level 1
20-00947	01/30/2020	04/03/2020	2020	64	Solar	Level 1
20-00948	01/30/2020	07/16/2020	2020	168	Solar	Level 1
20-00949	01/30/2020	06/22/2020	2020	144	Solar	Level 1
20-00950	01/30/2020	12/10/2020	2020	315	Solar	Level 1
20-00951	01/30/2020	05/07/2020	2020	98	Solar	Level 1
20-00952	01/30/2020	06/14/2020	2020	136	Solar	Level 1
20-00954	01/30/2020	03/31/2020	2020	61	Solar	Level 1
20-00956	01/30/2020	05/06/2020	2020	97	Solar	Level 1

20-00958	01/30/2020	05/06/2020	2020	97	Solar	Level 1
20-00961	01/30/2020	09/01/2020	2020	215	Solar	Level 1
20-00963	01/30/2020	06/04/2020	2020	126	Solar	Level 1
20-00964	01/30/2020	04/07/2020	2020	68	Solar	Level 1
20-00966	01/30/2020	04/29/2020	2020	90	Solar	Level 1
20-00967	01/30/2020	05/18/2020	2020	109	Solar	Level 1
20-00968	01/30/2020	04/20/2020	2020	81	Solar	Level 1
20-00969	01/30/2020	06/05/2020	2020	127	Solar	Level 1
20-00970	01/30/2020	03/31/2020	2020	61	Solar	Level 1
20-00971	01/30/2020	04/13/2020	2020	74	Solar	Level 1
20-00974	01/31/2020	04/15/2020	2020	75	Solar	Level 1
20-00975	01/31/2020	05/13/2020	2020	103	Solar	Level 1
20-00977	01/31/2020	04/09/2020	2020	69	Solar	Level 1
20-00978	01/31/2020	05/18/2020	2020	108	Solar	Level 1
20-00980	01/31/2020	03/17/2020	2020	46	Solar	Level 1
20-00981	01/31/2020	10/05/2020	2020	248	Solar	Level 1
20-00983	01/31/2020	08/19/2020	2020	201	Solar	Level 1
20-00984	01/31/2020	07/22/2020	2020	173	Solar	Level 1
20-00985	01/31/2020	04/20/2020	2020	80	Solar	Level 1
20-00986	01/31/2020	05/18/2020	2020	108	Solar	Level 1
20-00988	01/31/2020	03/06/2020	2020	35	Solar	Level 1
20-00989	01/31/2020	06/04/2020	2020	125	Solar	Level 1
20-00991	01/31/2020	07/22/2020	2020	173	Solar	Level 1
20-00992	01/31/2020	07/16/2020	2020	167	Solar	Level 1
20-00993	01/31/2020	08/19/2020	2020	201	Solar	Level 1
20-00994	01/31/2020	08/20/2020	2020	202	Solar	Level 1
20-00995	01/31/2020	11/19/2020	2020	293	Solar	Level 1
20-00996	01/31/2020	08/13/2020	2020	195	Solar	Level 1
20-00999	01/31/2020	07/17/2020	2020	168	Solar	Level 1
20-01000	01/31/2020	05/04/2020	2020	94	Solar	Level 1
20-01001	01/31/2020	04/07/2020	2020	67	Solar	Level 1
20-01002	01/31/2020	03/02/2020	2020	31	Solar	Level 1
20-01003	01/31/2020	03/30/2020	2020	59	Solar	Level 1
20-01004	01/31/2020	04/17/2020	2020	77	Solar	Level 1
20-01005	01/31/2020	07/20/2020	2020	171	Solar	Level 1
20-01006	01/31/2020	03/10/2020	2020	39	Solar	Level 1
20-01007	01/31/2020	04/05/2020	2020	65	Solar	Level 1
20-01009	01/31/2020	05/04/2020	2020	94	Solar	Level 1
20-01010	01/31/2020	06/19/2020	2020	140	Solar	Level 1
20-01011	01/31/2020	05/11/2020	2020	101	Solar	Level 1
20-01012	01/31/2020	04/29/2020	2020	89	Solar	Level 1

20-01013	01/31/2020	07/09/2020	2020	160	Solar	Level 1
20-01014	01/31/2020	04/08/2020	2020	68	Solar	Level 1
20-01015	02/01/2020	10/21/2020	2020	263	Solar	Level 1
20-01017	02/03/2020	05/07/2020	2020	94	Solar	Level 1
20-01020	02/03/2020	05/08/2020	2020	95	Solar	Level 1
20-01021	02/03/2020	08/10/2020	2020	189	Solar	Level 1
20-01022	02/03/2020	06/17/2020	2020	135	Solar	Level 1
20-01026	02/03/2020	05/20/2020	2020	107	Solar	Level 1
20-01027	02/03/2020	11/18/2020	2020	289	Solar	Level 1
20-01028	02/03/2020	09/29/2020	2020	239	Solar	Level 1
20-01029	02/03/2020	06/05/2020	2020	123	Solar	Level 1
20-01030	02/03/2020	08/19/2020	2020	198	Solar	Level 1
20-01033	02/03/2020	04/21/2020	2020	78	Solar	Level 1
20-01034	02/03/2020	05/14/2020	2020	101	Solar	Level 1
20-01040	02/03/2020	04/24/2020	2020	81	Solar	Level 1
20-01041	02/03/2020	05/18/2020	2020	105	Solar	Level 1
20-01043	02/03/2020	05/11/2020	2020	98	Solar	Level 1
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20-01045	02/03/2020	05/21/2020	2020	108	Solar	Level 1
20-01046	02/03/2020	03/12/2020	2020	38	Solar	Level 1
20-01047	02/03/2020	05/14/2020	2020	101	Solar	Level 1
20-01048	02/03/2020	05/19/2020	2020	106	Solar	Level 1
20-01049	02/03/2020	03/17/2020	2020	43	Solar	Level 1
20-01050	02/03/2020	03/18/2020	2020	44	Solar	Level 1
20-01051	02/03/2020	12/15/2020	2020	316	Solar	Level 1
20-01052	02/03/2020	07/28/2020	2020	176	Solar	Level 1
20-01054	02/03/2020	06/24/2020	2020	142	Solar	Level 1
20-01057	02/03/2020	04/02/2020	2020	59	Solar	Level 1
20-01058	02/03/2020	04/01/2020	2020	58	Solar	Level 1
20-01059	02/03/2020	08/18/2020	2020	197	Solar	Level 1
20-01061	02/03/2020	05/11/2020	2020	98	Solar	Level 1
20-01065	02/03/2020	04/14/2020	2020	71	Solar	Level 1
20-01066	02/03/2020	05/27/2020	2020	114	Solar	Level 1
20-01067	02/03/2020	07/22/2020	2020	170	Solar	Level 1
20-01068	02/03/2020	08/20/2020	2020	199	Solar	Level 1
20-01069	02/03/2020	07/13/2020	2020	161	Solar	Level 1
20-01074	02/03/2020	07/07/2020	2020	155	Solar	Level 1
20-01075	02/03/2020	09/09/2020	2020	219	Solar	Level 1
20-01076	02/03/2020	04/14/2020	2020	71	Solar	Level 1
20-01078	02/03/2020	08/20/2020	2020	199	Solar	Level 1
20-01079	02/03/2020	05/21/2020	2020	108	Solar	Level 1

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20-01081	02/03/2020	04/02/2020	2020	59	Solar	Level 1
20-01082	02/03/2020	05/18/2020	2020	105	Solar	Level 1
20-01085	02/03/2020	06/29/2020	2020	147	Solar	Level 1
20-01086	02/03/2020	03/17/2020	2020	43	Solar	Level 1
20-01088	02/03/2020	04/15/2020	2020	72	Solar	Level 1
20-01089	02/03/2020	03/30/2020	2020	56	Solar	Level 1
20-01090	02/03/2020	04/07/2020	2020	64	Solar	Level 1
20-01091	02/03/2020	04/03/2020	2020	60	Solar	Level 1
20-01092	02/03/2020	09/24/2020	2020	234	Solar	Level 1
20-01093	02/03/2020	05/04/2020	2020	91	Solar	Level 1
20-01094	02/03/2020	04/22/2020	2020	79	Solar	Level 1
20-01096	02/04/2020	07/29/2020	2020	176	Solar	Level 2
20-01097	02/04/2020	04/21/2020	2020	77	Solar	Level 1
20-01099	02/04/2020	06/01/2020	2020	118	Solar	Level 1
20-01101	02/04/2020	05/26/2020	2020	112	Solar	Level 1
20-01102	02/04/2020	07/13/2020	2020	160	Solar	Level 1
20-01103	02/04/2020	11/11/2020	2020	281	Solar	Level 1
20-01104	02/04/2020	04/01/2020	2020	57	Solar	Level 1
20-01105	02/04/2020	09/06/2020	2020	215	Solar	Level 1
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20-01110	02/04/2020	03/31/2020	2020	56	Solar	Level 1
20-01112	02/04/2020	10/13/2020	2020	252	Solar	Level 1
20-01114	02/04/2020	05/05/2020	2020	91	Solar	Level 1
20-01115	02/04/2020	04/21/2020	2020	77	Solar	Level 1
20-01117	02/04/2020	04/06/2020	2020	62	Solar	Level 1
20-01118	02/04/2020	06/09/2020	2020	126	Solar	Level 1
20-01120	02/04/2020	07/22/2020	2020	169	Solar	Level 1
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20-01125	02/04/2020	04/20/2020	2020	76	Solar	Level 1
20-01126	02/04/2020	06/11/2020	2020	128	Solar	Level 1
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20-01128	02/04/2020	04/15/2020	2020	71	Solar	Level 1
20-01129	02/04/2020	03/19/2020	2020	44	Solar	Level 1
20-01130	02/04/2020	03/17/2020	2020	42	Solar	Level 1
20-01131	02/04/2020	05/27/2020	2020	113	Solar	Level 1
20-01132	02/04/2020	11/29/2020	2020	299	Solar	Level 1
20-01133	02/04/2020	03/09/2020	2020	34	Solar	Level 1
20-01134	02/04/2020	08/04/2020	2020	182	Solar	Level 1

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20-01137	02/04/2020	04/20/2020	2020	76	Solar	Level 1
20-01138	02/04/2020	06/19/2020	2020	136	Solar	Level 1
20-01140	02/04/2020	09/06/2020	2020	215	Solar	Level 1
20-01141	02/04/2020	09/15/2020	2020	224	Solar	Level 1
20-01143	02/04/2020	05/20/2020	2020	106	Solar	Level 1
20-01145	02/05/2020	04/29/2020	2020	84	Solar	Level 1
20-01147	02/05/2020	08/04/2020	2020	181	Solar	Level 1
20-01148	02/05/2020	10/15/2020	2020	253	Solar	Level 1
20-01150	02/05/2020	06/09/2020	2020	125	Solar	Level 1
20-01151	02/05/2020	06/18/2020	2020	134	Solar	Level 1
20-01152	02/05/2020	11/09/2020	2020	278	Solar	Level 1
20-01153	02/05/2020	11/03/2020	2020	272	Solar	Level 1
20-01154	02/05/2020	03/31/2020	2020	55	Solar	Level 1
20-01158	02/05/2020	09/17/2020	2020	225	Solar	Level 1
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20-01161	02/05/2020	03/19/2020	2020	43	Solar	Level 1
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20-01164	02/05/2020	02/07/2020	2020	2	Solar	Level 1
20-01165	02/05/2020	04/29/2020	2020	84	Solar	Level 1
20-01166	02/05/2020	04/23/2020	2020	78	Solar	Level 1
20-01167	02/05/2020	05/08/2020	2020	93	Solar	Level 1
20-01168	02/05/2020	03/31/2020	2020	55	Solar	Level 1
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20-01172	02/05/2020	05/11/2020	2020	96	Solar	Level 1
20-01173	02/05/2020	07/22/2020	2020	168	Solar	Level 1
20-01177	02/05/2020	06/11/2020	2020	127	Solar	Level 1
20-01178	02/05/2020	06/15/2020	2020	131	Solar	Level 1
20-01181	02/06/2020	04/13/2020	2020	67	Solar	Level 1
20-01182	02/06/2020	04/21/2020	2020	75	Solar	Level 1
20-01183	02/06/2020	03/18/2020	2020	41	Solar	Level 1
20-01184	02/06/2020	06/25/2020	2020	140	Solar	Level 1
20-01188	02/06/2020	05/18/2020	2020	102	Solar	Level 1
20-01189	02/06/2020	06/01/2020	2020	116	Solar	Level 1
20-01191	02/06/2020	06/29/2020	2020	144	Solar	Level 1
20-01192	02/06/2020	09/11/2020	2020	218	Solar	Level 1
20-01194	02/06/2020	03/12/2020	2020	35	Solar	Level 1
20-01195	02/06/2020	03/06/2020	2020	29	Solar	Level 1
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20-01217	02/06/2020	03/06/2020	2020	29	Solar	Level 1
20-01218	02/06/2020	06/10/2020	2020	125	Solar	Level 1
20-01219	02/06/2020	03/04/2020	2020	27	Solar	Level 1
20-01220	02/06/2020	06/15/2020	2020	130	Solar	Level 1
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20-01222	02/06/2020	09/21/2020	2020	228	Solar	Level 1
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20-01227	02/07/2020	07/20/2020	2020	164	Solar	Level 1
20-01228	02/07/2020	05/29/2020	2020	112	Solar	Level 1
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20-01233	02/07/2020	10/07/2020	2020	243	Solar	Level 1
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20-01236	02/07/2020	08/21/2020	2020	196	Solar	Level 1
20-01238	02/07/2020	08/12/2020	2020	187	Solar	Level 1
20-01239	02/07/2020	08/20/2020	2020	195	Solar	Level 1
20-01240	02/07/2020	11/12/2020	2020	279	Solar	Level 1
20-01241	02/07/2020	07/22/2020	2020	166	Solar	Level 1
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20-01245	02/07/2020	04/24/2020	2020	77	Solar	Level 1
20-01246	02/07/2020	08/06/2020	2020	181	Solar	Level 1

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20-01253	02/07/2020	04/07/2020	2020	60	Solar	Level 1
20-01254	02/07/2020	06/30/2020	2020	144	Solar	Level 1
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20-01256	02/07/2020	07/24/2020	2020	168	Solar	Level 1
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20-01261	02/07/2020	08/15/2020	2020	190	Solar	Level 1
20-01264	02/07/2020	05/19/2020	2020	102	Solar	Level 1
20-01265	02/07/2020	04/07/2020	2020	60	Solar	Level 1
20-01266	02/07/2020	06/16/2020	2020	130	Solar	Level 1
20-01267	02/07/2020	05/11/2020	2020	94	Solar	Level 1
20-01269	02/07/2020	04/13/2020	2020	66	Solar	Level 1
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20-01287	02/08/2020	11/02/2020	2020	268	Solar	Level 1
20-01292	02/10/2020	07/20/2020	2020	161	Solar	Level 1
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20-01299	02/10/2020	10/06/2020	2020	239	Solar	Level 1
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20-01301	02/10/2020	11/17/2020	2020	281	Solar	Level 1
20-01302	02/10/2020	05/18/2020	2020	98	Solar	Level 1
20-01303	02/10/2020	06/12/2020	2020	123	Solar	Level 1
20-01307	02/10/2020	05/08/2020	2020	88	Solar	Level 1
20-01309	02/10/2020	07/22/2020	2020	163	Solar	Level 1
20-01310	02/10/2020	04/13/2020	2020	63	Solar	Level 1
20-01312	02/10/2020	04/07/2020	2020	57	Solar	Level 1
20-01313	02/10/2020	10/16/2020	2020	249	Solar	Level 1
20-01314	02/10/2020	09/10/2020	2020	213	Solar	Level 1
20-01315	02/10/2020	04/13/2020	2020	63	Solar	Level 1
20-01316	02/10/2020	04/13/2020	2020	63	Solar	Level 1

20-01317	02/10/2020	09/09/2020	2020	212	Solar	Level 1
20-01319	02/10/2020	04/29/2020	2020	79	Solar	Level 1
20-01320	02/10/2020	04/14/2020	2020	64	Solar	Level 1
20-01321	02/10/2020	04/27/2020	2020	77	Solar	Level 1
20-01322	02/10/2020	09/09/2020	2020	212	Solar	Level 1
20-01323	02/10/2020	04/21/2020	2020	71	Solar	Level 1
20-01326	02/10/2020	06/24/2020	2020	135	Solar	Level 1
20-01328	02/10/2020	03/30/2020	2020	49	Solar	Level 1
20-01330	02/10/2020	03/31/2020	2020	50	Solar	Level 1
20-01331	02/10/2020	08/18/2020	2020	190	Solar	Level 1
20-01332	02/10/2020	06/16/2020	2020	127	Solar	Level 1
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20-01338	02/10/2020	03/19/2020	2020	38	Solar	Level 1
20-01339	02/10/2020	05/19/2020	2020	99	Solar	Level 1
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20-01341	02/10/2020	06/04/2020	2020	115	Solar	Level 1
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20-01343	02/10/2020	05/05/2020	2020	85	Solar	Level 1
20-01344	02/10/2020	10/19/2020	2020	252	Solar	Level 1
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20-01347	02/10/2020	04/06/2020	2020	56	Solar	Level 2
20-01348	02/10/2020	06/05/2020	2020	116	Solar	Level 1
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20-01352	02/10/2020	03/24/2020	2020	43	Solar	Level 1
20-01354	02/10/2020	04/13/2020	2020	63	Solar	Level 1
20-01355	02/10/2020	04/14/2020	2020	64	Solar	Level 1
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20-01363	02/10/2020	06/30/2020	2020	141	Solar	Level 1
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20-01371	02/11/2020	03/05/2020	2020	23	Solar	Level 1
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20-01373	02/11/2020	05/04/2020	2020	83	Solar	Level 1
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20-01379	02/11/2020	07/09/2020	2020	149	Solar	Level 1
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20-01383	02/11/2020	03/27/2020	2020	45	Solar	Level 1
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20-01387	02/11/2020	04/14/2020	2020	63	Solar	Level 1
20-01388	02/11/2020	07/14/2020	2020	154	Solar	Level 1
20-01389	02/11/2020	07/17/2020	2020	157	Solar	Level 1
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20-01392	02/11/2020	05/05/2020	2020	84	Solar	Level 1
20-01393	02/11/2020	06/08/2020	2020	118	Solar	Level 1
20-01395	02/11/2020	06/29/2020	2020	139	Solar	Level 1
20-01396	02/11/2020	07/17/2020	2020	157	Solar	Level 1
20-01397	02/11/2020	04/13/2020	2020	62	Solar	Level 1
20-01398	02/11/2020	06/26/2020	2020	136	Solar	Level 1
20-01399	02/11/2020	06/03/2020	2020	113	Solar	Level 2
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20-01402	02/11/2020	05/26/2020	2020	105	Solar	Level 1
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20-01404	02/11/2020	04/15/2020	2020	64	Solar	Level 1
20-01406	02/11/2020	04/13/2020	2020	62	Solar	Level 1
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20-01409	02/11/2020	03/23/2020	2020	41	Solar	Level 1
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20-01420	02/12/2020	08/14/2020	2020	184	Solar	Level 1
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20-01435	02/12/2020	06/23/2020	2020	132	Solar	Level 1
20-01436	02/12/2020	04/14/2020	2020	62	Solar	Level 1
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20-01485	02/13/2020	08/09/2020	2020	178	Solar	Level 1
20-01486	02/13/2020	05/05/2020	2020	82	Solar	Level 1
20-01487	02/13/2020	07/31/2020	2020	169	Solar	Level 1
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20-01489	02/13/2020	04/20/2020	2020	67	Solar	Level 1
20-01490	02/13/2020	05/28/2020	2020	105	Solar	Level 1
20-01491	02/13/2020	04/07/2020	2020	54	Solar	Level 1
20-01492	02/13/2020	07/14/2020	2020	152	Solar	Level 1
20-01493	02/13/2020	08/13/2020	2020	182	Solar	Level 1

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20-01497	02/13/2020	07/23/2020	2020	161	Solar	Level 1
20-01498	02/13/2020	05/19/2020	2020	96	Solar	Level 1
20-01499	02/13/2020	04/15/2020	2020	62	Solar	Level 1
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20-01505	02/13/2020	04/07/2020	2020	54	Solar	Level 1
20-01506	02/13/2020	08/11/2020	2020	180	Solar	Level 1
20-01507	02/13/2020	05/20/2020	2020	97	Solar	Level 1
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20-01509	02/13/2020	05/26/2020	2020	103	Solar	Level 1
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20-01599	02/17/2020	08/14/2020	2020	179	Solar	Level 1
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20-01712	02/19/2020	06/12/2020	2020	114	Solar	Level 1
20-01713	02/19/2020	08/10/2020	2020	173	Solar	Level 1
20-01714	02/19/2020	04/13/2020	2020	54	Solar	Level 1
20-01715	02/19/2020	06/09/2020	2020	111	Solar	Level 1
20-01716	02/19/2020	06/29/2020	2020	131	Solar	Level 1

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20-01720	02/20/2020	12/01/2020	2020	285	Solar	Level 1
20-01722	02/20/2020	06/14/2020	2020	115	Solar	Level 1
20-01724	02/20/2020	08/10/2020	2020	172	Solar	Level 1
20-01725	02/20/2020	06/25/2020	2020	126	Solar	Level 1
20-01727	02/20/2020	07/24/2020	2020	155	Solar	Level 1
20-01728	02/20/2020	06/01/2020	2020	102	Solar	Level 1
20-01729	02/20/2020	03/24/2020	2020	33	Solar	Level 1
20-01731	02/20/2020	04/27/2020	2020	67	Solar	Level 1
20-01733	02/20/2020	04/24/2020	2020	64	Solar	Level 1
20-01734	02/20/2020	04/20/2020	2020	60	Solar	Level 1
20-01736	02/20/2020	04/30/2020	2020	70	Solar	Level 1
20-01737	02/20/2020	05/11/2020	2020	81	Solar	Level 1
20-01739	02/20/2020	06/22/2020	2020	123	Solar	Level 1
20-01740	02/20/2020	06/01/2020	2020	102	Solar	Level 1
20-01742	02/20/2020	07/31/2020	2020	162	Solar	Level 1
20-01744	02/20/2020	08/14/2020	2020	176	Solar	Level 1
20-01745	02/20/2020	04/13/2020	2020	53	Solar	Level 1
20-01746	02/20/2020	02/26/2020	2020	6	Solar	Level 1
20-01748	02/20/2020	08/06/2020	2020	168	Solar	Level 1
20-01749	02/20/2020	08/14/2020	2020	176	Solar	Level 1
20-01750	02/20/2020	05/19/2020	2020	89	Solar	Level 1
20-01751	02/20/2020	04/24/2020	2020	64	Solar	Level 1
20-01752	02/20/2020	05/26/2020	2020	96	Solar	Level 1
20-01753	02/20/2020	04/27/2020	2020	67	Solar	Level 1
20-01755	02/20/2020	08/06/2020	2020	168	Solar	Level 1
20-01756	02/20/2020	10/01/2020	2020	224	Solar	Level 1
20-01757	02/20/2020	10/08/2020	2020	231	Solar	Level 1
20-01758	02/20/2020	04/13/2020	2020	53	Solar	Level 1
20-01759	02/20/2020	10/08/2020	2020	231	Solar	Level 2
20-01760	02/20/2020	10/06/2020	2020	229	Solar	Level 2
20-01761	02/20/2020	06/17/2020	2020	118	Solar	Level 1
20-01765	02/21/2020	11/25/2020	2020	278	Solar	Level 1
20-01766	02/21/2020	08/14/2020	2020	175	Solar	Level 1
20-01768	02/21/2020	03/03/2020	2020	11	Solar	Level 1
20-01769	02/21/2020	05/04/2020	2020	73	Solar	Level 1
20-01771	02/21/2020	06/11/2020	2020	111	Solar	Level 1
20-01774	02/21/2020	08/06/2020	2020	167	Solar	Level 1
20-01775	02/21/2020	04/24/2020	2020	63	Solar	Level 1
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20-01791	02/21/2020	04/27/2020	2020	66	Solar	Level 1
20-01792	02/21/2020	03/25/2020	2020	33	Solar	Level 1
20-01794	02/21/2020	04/27/2020	2020	66	Solar	Level 1
20-01795	02/21/2020	05/15/2020	2020	84	Solar	Level 1
20-01796	02/21/2020	04/27/2020	2020	66	Solar	Level 1
20-01797	02/21/2020	08/18/2020	2020	179	Solar	Level 1
20-01799	02/21/2020	08/13/2020	2020	174	Solar	Level 1
20-01801	02/21/2020	06/22/2020	2020	122	Solar	Level 1
20-01802	02/21/2020	08/10/2020	2020	171	Solar	Level 1
20-01803	02/21/2020	08/10/2020	2020	171	Solar	Level 1
20-01804	02/21/2020	07/21/2020	2020	151	Solar	Level 1
20-01807	02/21/2020	10/09/2020	2020	231	Solar	Level 1
20-01808	02/21/2020	02/28/2020	2020	7	Solar	Level 1
20-01809	02/21/2020	05/04/2020	2020	73	Solar	Level 1
20-01811	02/21/2020	03/11/2020	2020	19	Solar	Level 1
20-01812	02/21/2020	07/17/2020	2020	147	Solar	Level 1
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20-01818	02/21/2020	05/24/2020	2020	93	Solar	Level 1
20-01819	02/21/2020	08/11/2020	2020	172	Solar	Level 1
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20-01822	02/21/2020	07/13/2020	2020	143	Solar	Level 1
20-01823	02/21/2020	04/01/2020	2020	40	Solar	Level 1
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20-01826	02/22/2020	10/07/2020	2020	228	Solar	Level 1
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20-01834	02/24/2020	11/01/2020	2020	251	Solar	Level 1
20-01835	02/24/2020	08/23/2020	2020	181	Solar	Level 1
20-01836	02/24/2020	07/21/2020	2020	148	Solar	Level 1
20-01839	02/24/2020	06/17/2020	2020	114	Solar	Level 1
20-01840	02/24/2020	06/22/2020	2020	119	Solar	Level 1
20-01841	02/24/2020	03/31/2020	2020	36	Solar	Level 1
20-01842	02/24/2020	09/16/2020	2020	205	Solar	Level 1
20-01843	02/24/2020	07/07/2020	2020	134	Solar	Level 1

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20-01846	02/24/2020	06/05/2020	2020	102	Solar	Level 1
20-01847	02/24/2020	06/24/2020	2020	121	Solar	Level 1
20-01849	02/24/2020	06/04/2020	2020	101	Solar	Level 1
20-01850	02/24/2020	03/05/2020	2020	10	Solar	Level 1
20-01852	02/24/2020	03/12/2020	2020	17	Solar	Level 1
20-01855	02/24/2020	04/28/2020	2020	64	Solar	Level 1
20-01856	02/24/2020	05/19/2020	2020	85	Solar	Level 1
20-01857	02/24/2020	08/23/2020	2020	181	Solar	Level 1
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20-01863	02/24/2020	05/06/2020	2020	72	Solar	Level 1
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20-01873	02/24/2020	06/19/2020	2020	116	Solar	Level 1
20-01874	02/24/2020	03/17/2020	2020	22	Solar	Level 1
20-01877	02/24/2020	04/07/2020	2020	43	Solar	Level 1
20-01879	02/24/2020	06/25/2020	2020	122	Solar	Level 1
20-01880	02/24/2020	05/21/2020	2020	87	Solar	Level 1
20-01881	02/24/2020	06/09/2020	2020	106	Solar	Level 1
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20-01885	02/24/2020	05/29/2020	2020	95	Solar	Level 1
20-01887	02/24/2020	05/11/2020	2020	77	Solar	Level 1
20-01889	02/24/2020	05/21/2020	2020	87	Solar	Level 1
20-01890	02/24/2020	06/14/2020	2020	111	Solar	Level 1
20-01891	02/24/2020	04/20/2020	2020	56	Solar	Level 1
20-01892	02/24/2020	04/27/2020	2020	63	Solar	Level 1
20-01893	02/24/2020	04/14/2020	2020	50	Solar	Level 1
20-01896	02/25/2020	06/30/2020	2020	126	Solar	Level 1
20-01898	02/25/2020	05/04/2020	2020	69	Solar	Level 1
20-01899	02/25/2020	05/06/2020	2020	71	Solar	Level 1
20-01900	02/25/2020	03/31/2020	2020	35	Solar	Level 1
20-01901	02/25/2020	06/19/2020	2020	115	Solar	Level 1
20-01902	02/25/2020	05/08/2020	2020	73	Solar	Level 1
20-01904	02/25/2020	06/24/2020	2020	120	Solar	Level 1

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20-01913	02/25/2020	10/15/2020	2020	233	Solar	Level 1
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20-01915	02/25/2020	06/17/2020	2020	113	Solar	Level 1
20-01916	02/25/2020	04/30/2020	2020	65	Solar	Level 1
20-01917	02/25/2020	06/19/2020	2020	115	Solar	Level 1
20-01918	02/25/2020	11/06/2020	2020	255	Solar	Level 1
20-01919	02/25/2020	10/06/2020	2020	224	Solar	Level 1
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20-01925	02/25/2020	03/19/2020	2020	23	Solar	Level 1
20-01927	02/25/2020	03/18/2020	2020	22	Solar	Level 1
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20-01930	02/25/2020	05/18/2020	2020	83	Solar	Level 1
20-01931	02/25/2020	05/26/2020	2020	91	Solar	Level 1
20-01933	02/25/2020	03/16/2020	2020	20	Solar	Level 1
20-01937	02/25/2020	04/27/2020	2020	62	Solar	Level 1
20-01938	02/25/2020	10/20/2020	2020	238	Solar	Level 1
20-01939	02/25/2020	06/18/2020	2020	114	Solar	Level 1
20-01941	02/25/2020	06/24/2020	2020	120	Solar	Level 1
20-01942	02/25/2020	05/11/2020	2020	76	Solar	Level 1
20-01943	02/25/2020	06/03/2020	2020	99	Solar	Level 1
20-01944	02/25/2020	04/13/2020	2020	48	Solar	Level 1
20-01945	02/25/2020	03/31/2020	2020	35	Solar	Level 1
20-01946	02/25/2020	06/09/2020	2020	105	Solar	Level 4
20-01947	02/26/2020	06/04/2020	2020	99	Solar	Level 1
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20-01963	02/26/2020	06/29/2020	2020	124	Solar	Level 1
20-01964	02/26/2020	05/18/2020	2020	82	Solar	Level 1
20-01967	02/26/2020	08/06/2020	2020	162	Solar	Level 1
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20-01970	02/26/2020	05/12/2020	2020	76	Solar	Level 1
20-01971	02/26/2020	06/29/2020	2020	124	Solar	Level 1
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20-01974	02/26/2020	12/10/2020	2020	288	Solar	Level 1
20-01975	02/26/2020	08/10/2020	2020	166	Solar	Level 1
20-01976	02/26/2020	09/26/2020	2020	213	Solar	Level 1
20-01977	02/26/2020	07/14/2020	2020	139	Solar	Level 1
20-01978	02/26/2020	07/24/2020	2020	149	Solar	Level 1
20-01979	02/26/2020	04/20/2020	2020	54	Solar	Level 1
20-01981	02/26/2020	08/23/2020	2020	179	Solar	Level 1
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20-01985	02/26/2020	05/06/2020	2020	70	Solar	Level 1
20-01986	02/26/2020	11/25/2020	2020	273	Solar	Level 1
20-01989	02/26/2020	04/22/2020	2020	56	Solar	Level 1
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20-01991	02/26/2020	08/07/2020	2020	163	Solar	Level 1
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20-02011	02/27/2020	03/19/2020	2020	21	Solar	Level 1
20-02012	02/27/2020	07/28/2020	2020	152	Solar	Level 1
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20-02016	02/27/2020	03/31/2020	2020	33	Solar	Level 1
20-02018	02/27/2020	08/13/2020	2020	168	Solar	Level 1

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20-02033	02/27/2020	07/22/2020	2020	146	Solar	Level 1
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20-02069	02/28/2020	07/09/2020	2020	132	Solar	Level 4
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20-02074	02/28/2020	03/31/2020	2020	32	Solar	Level 1

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20-02093	03/02/2020	06/02/2020	2020	92	Solar	Level 1
20-02094	03/02/2020	10/22/2020	2020	234	Solar	Level 2
20-02095	03/02/2020	05/26/2020	2020	85	Solar	Level 1
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20-02117	03/02/2020	11/25/2020	2020	268	Solar	Level 1
20-02118	03/02/2020	04/24/2020	2020	53	Solar	Level 1
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20-02123	03/02/2020	04/27/2020	2020	56	Solar	Level 1
20-02124	03/02/2020	08/12/2020	2020	163	Solar	Level 1
20-02125	03/02/2020	03/30/2020	2020	28	Solar	Level 1
20-02128	03/02/2020	08/13/2020	2020	164	Solar	Level 1
20-02130	03/02/2020	06/03/2020	2020	93	Solar	Level 1
20-02131	03/02/2020	04/28/2020	2020	57	Solar	Level 1
20-02132	03/02/2020	05/20/2020	2020	79	Solar	Level 1
20-02133	03/02/2020	07/09/2020	2020	129	Solar	Level 1
20-02134	03/02/2020	10/21/2020	2020	233	Solar	Level 1

20-02135	03/02/2020	10/16/2020	2020	228	Solar	Level 1
20-02136	03/02/2020	03/19/2020	2020	17	Solar	Level 1
20-02137	03/02/2020	06/16/2020	2020	106	Solar	Level 1
20-02138	03/02/2020	06/12/2020	2020	102	Solar	Level 1
20-02140	03/02/2020	09/30/2020	2020	212	Solar	Level 1
20-02142	03/03/2020	09/14/2020	2020	195	Solar	Level 1
20-02143	03/03/2020	05/14/2020	2020	72	Solar	Level 1
20-02147	03/03/2020	09/16/2020	2020	197	Solar	Level 1
20-02149	03/03/2020	04/07/2020	2020	35	Solar	Level 1
20-02150	03/03/2020	07/21/2020	2020	140	Solar	Level 1
20-02151	03/03/2020	07/31/2020	2020	150	Solar	Level 1
20-02152	03/03/2020	05/02/2020	2020	60	Solar	Level 1
20-02154	03/03/2020	04/08/2020	2020	36	Solar	Level 1
20-02155	03/03/2020	06/03/2020	2020	92	Solar	Level 1
20-02157	03/03/2020	12/31/2020	2020	303	Solar	Level 1
20-02159	03/03/2020	04/22/2020	2020	50	Solar	Level 1
20-02160	03/03/2020	06/18/2020	2020	107	Solar	Level 1
20-02163	03/03/2020	03/27/2020	2020	24	Solar	Level 1
20-02164	03/03/2020	11/04/2020	2020	246	Solar	Level 1
20-02165	03/03/2020	04/30/2020	2020	58	Solar	Level 1
20-02166	03/03/2020	06/30/2020	2020	119	Solar	Level 1
20-02167	03/03/2020	10/08/2020	2020	219	Solar	Level 1
20-02168	03/03/2020	06/29/2020	2020	118	Solar	Level 1
20-02169	03/03/2020	11/19/2020	2020	261	Solar	Level 1
20-02170	03/03/2020	05/20/2020	2020	78	Solar	Level 1
20-02172	03/03/2020	06/11/2020	2020	100	Solar	Level 1
20-02173	03/03/2020	03/23/2020	2020	20	Solar	Level 1
20-02175	03/03/2020	06/22/2020	2020	111	Solar	Level 1
20-02176	03/03/2020	11/02/2020	2020	244	Solar	Level 1
20-02178	03/03/2020	04/27/2020	2020	55	Solar	Level 1
20-02179	03/03/2020	06/15/2020	2020	104	Solar	Level 1
20-02180	03/03/2020	06/03/2020	2020	92	Solar	Level 1
20-02181	03/03/2020	04/27/2020	2020	55	Solar	Level 1
20-02182	03/03/2020	09/23/2020	2020	204	Solar	Level 1
20-02183	03/03/2020	07/17/2020	2020	136	Solar	Level 1
20-02185	03/03/2020	06/30/2020	2020	119	Solar	Level 1
20-02186	03/03/2020	04/24/2020	2020	52	Solar	Level 1
20-02188	03/03/2020	05/22/2020	2020	80	Solar	Level 1
20-02189	03/03/2020	06/03/2020	2020	92	Solar	Level 1
20-02190	03/03/2020	08/20/2020	2020	170	Solar	Level 1
20-02192	03/03/2020	07/09/2020	2020	128	Solar	Level 1

20-02194	03/03/2020	06/06/2020	2020	95	Solar	Level 1
20-02195	03/03/2020	10/14/2020	2020	225	Solar	Level 1
20-02196	03/03/2020	05/04/2020	2020	62	Solar	Level 1
20-02197	03/04/2020	05/14/2020	2020	71	Solar	Level 1
20-02198	03/04/2020	05/21/2020	2020	78	Solar	Level 1
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20-02201	03/04/2020	05/13/2020	2020	70	Solar	Level 1
20-02203	03/04/2020	03/26/2020	2020	22	Solar	Level 1
20-02204	03/04/2020	06/02/2020	2020	90	Solar	Level 1
20-02205	03/04/2020	06/02/2020	2020	90	Solar	Level 1
20-02206	03/04/2020	05/20/2020	2020	77	Solar	Level 1
20-02209	03/04/2020	08/20/2020	2020	169	Solar	Level 1
20-02212	03/04/2020	06/18/2020	2020	106	Solar	Level 1
20-02213	03/04/2020	07/28/2020	2020	146	Solar	Level 1
20-02214	03/04/2020	03/31/2020	2020	27	Solar	Level 1
20-02215	03/04/2020	04/13/2020	2020	40	Solar	Level 1
20-02216	03/04/2020	08/15/2020	2020	164	Solar	Level 1
20-02218	03/04/2020	06/18/2020	2020	106	Solar	Level 1
20-02219	03/04/2020	03/18/2020	2020	14	Solar	Level 1
20-02220	03/04/2020	06/19/2020	2020	107	Solar	Level 1
20-02221	03/04/2020	05/19/2020	2020	76	Solar	Level 1
20-02222	03/04/2020	06/22/2020	2020	110	Solar	Level 1
20-02223	03/04/2020	12/31/2020	2020	302	Solar	Level 1
20-02224	03/04/2020	06/02/2020	2020	90	Solar	Level 1
20-02225	03/04/2020	05/04/2020	2020	61	Solar	Level 1
20-02226	03/04/2020	09/15/2020	2020	195	Solar	Level 1
20-02227	03/04/2020	06/19/2020	2020	107	Solar	Level 1
20-02230	03/04/2020	05/12/2020	2020	69	Solar	Level 1
20-02231	03/04/2020	04/22/2020	2020	49	Solar	Level 1
20-02232	03/04/2020	10/16/2020	2020	226	Solar	Level 1
20-02233	03/04/2020	05/04/2020	2020	61	Solar	Level 1
20-02236	03/04/2020	04/29/2020	2020	56	Solar	Level 1
20-02237	03/04/2020	07/28/2020	2020	146	Solar	Level 1
20-02239	03/04/2020	08/12/2020	2020	161	Solar	Level 1
20-02240	03/04/2020	06/03/2020	2020	91	Solar	Level 1
20-02241	03/04/2020	06/19/2020	2020	107	Solar	Level 1
20-02242	03/04/2020	06/05/2020	2020	93	Solar	Level 1
20-02243	03/04/2020	06/17/2020	2020	105	Solar	Level 1
20-02244	03/04/2020	05/21/2020	2020	78	Solar	Level 1
20-02245	03/04/2020	05/20/2020	2020	77	Solar	Level 1
20-02246	03/04/2020	04/15/2020	2020	42	Solar	Level 1

20-02247	03/04/2020	06/19/2020	2020	107	Solar	Level 1
20-02249	03/04/2020	07/22/2020	2020	140	Solar	Level 1
20-02250	03/04/2020	07/21/2020	2020	139	Solar	Level 1
20-02251	03/04/2020	05/06/2020	2020	63	Solar	Level 1
20-02254	03/04/2020	06/30/2020	2020	118	Solar	Level 1
20-02255	03/04/2020	08/12/2020	2020	161	Solar	Level 1
20-02256	03/04/2020	04/28/2020	2020	55	Solar	Level 1
20-02258	03/04/2020	08/11/2020	2020	160	Solar	Level 1
20-02259	03/04/2020	04/03/2020	2020	30	Solar	Level 1
20-02261	03/05/2020	07/22/2020	2020	139	Solar	Level 1
20-02264	03/05/2020	08/06/2020	2020	154	Solar	Level 1
20-02265	03/05/2020	05/12/2020	2020	68	Solar	Level 1
20-02267	03/05/2020	06/25/2020	2020	112	Solar	Level 1
20-02269	03/05/2020	07/21/2020	2020	138	Solar	Level 1
20-02270	03/05/2020	08/17/2020	2020	165	Solar	Level 1
20-02273	03/05/2020	07/24/2020	2020	141	Solar	Level 1
20-02274	03/05/2020	07/14/2020	2020	131	Solar	Level 1
20-02276	03/05/2020	05/12/2020	2020	68	Solar	Level 1
20-02277	03/05/2020	08/10/2020	2020	158	Solar	Level 1
20-02278	03/05/2020	04/29/2020	2020	55	Solar	Level 1
20-02279	03/05/2020	06/05/2020	2020	92	Solar	Level 1
20-02280	03/05/2020	08/20/2020	2020	168	Solar	Level 1
20-02282	03/05/2020	09/04/2020	2020	183	Solar	Level 2
20-02283	03/05/2020	06/12/2020	2020	99	Solar	Level 1
20-02284	03/05/2020	04/08/2020	2020	34	Solar	Level 1
20-02289	03/05/2020	06/03/2020	2020	90	Solar	Level 1
20-02290	03/05/2020	04/28/2020	2020	54	Solar	Level 1
20-02291	03/05/2020	07/24/2020	2020	141	Solar	Level 1
20-02294	03/05/2020	06/22/2020	2020	109	Solar	Level 1
20-02295	03/05/2020	05/27/2020	2020	83	Solar	Level 1
20-02296	03/05/2020	04/15/2020	2020	41	Solar	Level 1
20-02297	03/05/2020	05/04/2020	2020	60	Solar	Level 1
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20-02300	03/05/2020	05/12/2020	2020	68	Solar	Level 1
20-02302	03/05/2020	06/19/2020	2020	106	Solar	Level 1
20-02303	03/05/2020	04/28/2020	2020	54	Solar	Level 1
20-02304	03/05/2020	04/21/2020	2020	47	Solar	Level 1
20-02305	03/05/2020	04/07/2020	2020	33	Solar	Level 1
20-02307	03/05/2020	12/28/2020	2020	298	Solar	Level 1
20-02308	03/05/2020	03/23/2020	2020	18	Solar	Level 1
20-02309	03/05/2020	09/14/2020	2020	193	Solar	Level 1

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20-02314	03/05/2020	07/20/2020	2020	137	Solar	Level 1
20-02316	03/05/2020	08/20/2020	2020	168	Solar	Level 1
20-02317	03/05/2020	06/29/2020	2020	116	Solar	Level 1
20-02318	03/05/2020	05/19/2020	2020	75	Solar	Level 1
20-02320	03/06/2020	05/07/2020	2020	62	Solar	Level 1
20-02322	03/06/2020	04/30/2020	2020	55	Solar	Level 2
20-02325	03/06/2020	10/23/2020	2020	231	Solar	Level 1
20-02327	03/06/2020	08/20/2020	2020	167	Solar	Level 1
20-02329	03/06/2020	07/30/2020	2020	146	Solar	Level 1
20-02330	03/06/2020	08/10/2020	2020	157	Solar	Level 1
20-02331	03/06/2020	12/18/2020	2020	287	Solar	Level 1
20-02332	03/06/2020	05/26/2020	2020	81	Solar	Level 1
20-02333	03/06/2020	10/15/2020	2020	223	Solar	Level 1
20-02334	03/06/2020	04/28/2020	2020	53	Solar	Level 1
20-02335	03/06/2020	08/21/2020	2020	168	Solar	Level 1
20-02336	03/06/2020	05/05/2020	2020	60	Solar	Level 1
20-02338	03/06/2020	05/04/2020	2020	59	Solar	Level 1
20-02339	03/06/2020	04/28/2020	2020	53	Solar	Level 1
20-02340	03/06/2020	06/22/2020	2020	108	Solar	Level 1
20-02341	03/06/2020	09/16/2020	2020	194	Solar	Level 1
20-02344	03/06/2020	05/04/2020	2020	59	Solar	Level 1
20-02346	03/06/2020	09/08/2020	2020	186	Solar	Level 1
20-02347	03/06/2020	07/09/2020	2020	125	Solar	Level 1
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20-02353	03/06/2020	05/20/2020	2020	75	Solar	Level 1
20-02354	03/06/2020	04/21/2020	2020	46	Solar	Level 1
20-02355	03/06/2020	05/07/2020	2020	62	Solar	Level 1
20-02356	03/06/2020	11/25/2020	2020	264	Solar	Level 1
20-02357	03/06/2020	07/29/2020	2020	145	Solar	Level 1
20-02358	03/06/2020	12/07/2020	2020	276	Solar	Level 1
20-02359	03/06/2020	04/05/2020	2020	30	Solar	Level 1
20-02360	03/06/2020	08/13/2020	2020	160	Solar	Level 1
20-02362	03/06/2020	09/18/2020	2020	196	Solar	Level 1
20-02363	03/06/2020	09/23/2020	2020	201	Solar	Level 1
20-02364	03/06/2020	08/20/2020	2020	167	Solar	Level 1

20-02365	03/06/2020	06/19/2020	2020	105	Solar	Level 1
20-02366	03/06/2020	06/05/2020	2020	91	Solar	Level 1
20-02367	03/06/2020	10/26/2020	2020	234	Solar	Level 1
20-02369	03/06/2020	07/24/2020	2020	140	Solar	Level 1
20-02370	03/06/2020	06/17/2020	2020	103	Solar	Level 1
20-02371	03/07/2020	11/16/2020	2020	254	Solar	Level 1
20-02374	03/07/2020	05/01/2020	2020	55	Solar	Level 1
20-02375	03/07/2020	08/28/2020	2020	174	Solar	Level 1
20-02378	03/09/2020	05/08/2020	2020	60	Solar	Level 1
20-02379	03/09/2020	04/20/2020	2020	42	Solar	Level 1
20-02380	03/09/2020	05/11/2020	2020	63	Solar	Level 1
20-02381	03/09/2020	06/04/2020	2020	87	Solar	Level 1
20-02384	03/09/2020	08/21/2020	2020	165	Solar	Level 1
20-02386	03/09/2020	06/07/2020	2020	90	Solar	Level 1
20-02389	03/09/2020	08/29/2020	2020	173	Solar	Level 1
20-02390	03/09/2020	12/14/2020	2020	280	Solar	Level 1
20-02393	03/09/2020	06/12/2020	2020	95	Solar	Level 1
20-02394	03/09/2020	06/07/2020	2020	90	Solar	Level 1
20-02395	03/09/2020	10/13/2020	2020	218	Solar	Level 1
20-02396	03/09/2020	06/18/2020	2020	101	Solar	Level 1
20-02397	03/09/2020	05/29/2020	2020	81	Solar	Level 1
20-02398	03/09/2020	06/22/2020	2020	105	Solar	Level 1
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20-02409	03/09/2020	09/14/2020	2020	189	Solar	Level 1
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20-02413	03/09/2020	06/12/2020	2020	95	Solar	Level 1
20-02414	03/09/2020	08/20/2020	2020	164	Solar	Level 1
20-02415	03/09/2020	08/06/2020	2020	150	Solar	Level 1
20-02416	03/09/2020	05/11/2020	2020	63	Solar	Level 1
20-02417	03/09/2020	07/17/2020	2020	130	Solar	Level 1
20-02418	03/09/2020	05/15/2020	2020	67	Solar	Level 1
20-02419	03/09/2020	09/16/2020	2020	191	Solar	Level 1
20-02420	03/09/2020	08/20/2020	2020	164	Solar	Level 1
20-02422	03/09/2020	06/19/2020	2020	102	Solar	Level 1
20-02423	03/09/2020	06/07/2020	2020	90	Solar	Level 1
20-02426	03/09/2020	05/06/2020	2020	58	Solar	Level 1

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20-02429	03/09/2020	08/21/2020	2020	165	Solar	Level 1
20-02430	03/09/2020	05/19/2020	2020	71	Solar	Level 1
20-02431	03/09/2020	05/07/2020	2020	59	Solar	Level 1
20-02432	03/09/2020	06/12/2020	2020	95	Solar	Level 1
20-02434	03/09/2020	06/24/2020	2020	107	Solar	Level 1
20-02435	03/09/2020	04/09/2020	2020	31	Solar	Level 1
20-02436	03/09/2020	05/19/2020	2020	71	Solar	Level 1
20-02437	03/09/2020	08/31/2020	2020	175	Solar	Level 1
20-02438	03/09/2020	04/28/2020	2020	50	Solar	Level 1
20-02439	03/09/2020	08/10/2020	2020	154	Solar	Level 1
20-02441	03/09/2020	09/16/2020	2020	191	Solar	Level 1
20-02442	03/09/2020	05/11/2020	2020	63	Solar	Level 1
20-02443	03/09/2020	04/27/2020	2020	49	Solar	Level 1
20-02446	03/10/2020	08/19/2020	2020	162	Solar	Level 1
20-02447	03/10/2020	08/20/2020	2020	163	Solar	Level 1
20-02449	03/10/2020	05/19/2020	2020	70	Solar	Level 1
20-02451	03/10/2020	06/22/2020	2020	104	Solar	Level 2
20-02452	03/10/2020	04/08/2020	2020	29	Solar	Level 1
20-02454	03/10/2020	04/29/2020	2020	50	Solar	Level 1
20-02455	03/10/2020	09/17/2020	2020	191	Solar	Level 1
20-02457	03/10/2020	09/15/2020	2020	189	Solar	Level 1
20-02458	03/10/2020	08/21/2020	2020	164	Solar	Level 2
20-02459	03/10/2020	06/03/2020	2020	85	Solar	Level 1
20-02460	03/10/2020	08/20/2020	2020	163	Solar	Level 2
20-02463	03/10/2020	04/20/2020	2020	41	Solar	Level 1
20-02464	03/10/2020	12/03/2020	2020	268	Solar	Level 1
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20-02473	03/10/2020	05/19/2020	2020	70	Solar	Level 1
20-02474	03/10/2020	08/10/2020	2020	153	Solar	Level 1
20-02476	03/10/2020	07/20/2020	2020	132	Solar	Level 1
20-02477	03/10/2020	07/14/2020	2020	126	Solar	Level 1
20-02478	03/10/2020	11/11/2020	2020	246	Solar	Level 1
20-02479	03/10/2020	04/21/2020	2020	42	Solar	Level 1
20-02480	03/10/2020	07/17/2020	2020	129	Solar	Level 1
20-02481	03/10/2020	05/04/2020	2020	55	Solar	Level 1
20-02482	03/10/2020	06/30/2020	2020	112	Solar	Level 1

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20-02486	03/10/2020	05/26/2020	2020	77	Solar	Level 1
20-02487	03/10/2020	06/17/2020	2020	99	Solar	Level 1
20-02488	03/10/2020	09/24/2020	2020	198	Solar	Level 1
20-02491	03/10/2020	06/24/2020	2020	106	Solar	Level 1
20-02492	03/11/2020	09/29/2020	2020	202	Solar	Level 1
20-02493	03/11/2020	05/01/2020	2020	51	Solar	Level 1
20-02494	03/11/2020	04/29/2020	2020	49	Solar	Level 1
20-02495	03/11/2020	09/14/2020	2020	187	Solar	Level 1
20-02497	03/11/2020	06/18/2020	2020	99	Solar	Level 1
20-02498	03/11/2020	04/30/2020	2020	50	Solar	Level 1
20-02501	03/11/2020	05/21/2020	2020	71	Solar	Level 1
20-02504	03/11/2020	03/18/2020	2020	7	Solar	Level 1
20-02505	03/11/2020	09/25/2020	2020	198	Solar	Level 1
20-02507	03/11/2020	11/16/2020	2020	250	Solar	Level 1
20-02508	03/11/2020	06/01/2020	2020	82	Solar	Level 1
20-02509	03/11/2020	06/29/2020	2020	110	Solar	Level 1
20-02510	03/11/2020	05/26/2020	2020	76	Solar	Level 1
20-02511	03/11/2020	06/04/2020	2020	85	Solar	Level 1
20-02512	03/11/2020	05/29/2020	2020	79	Solar	Level 1
20-02513	03/11/2020	10/07/2020	2020	210	Solar	Level 1
20-02514	03/11/2020	05/04/2020	2020	54	Solar	Level 1
20-02516	03/11/2020	05/26/2020	2020	76	Solar	Level 1
20-02517	03/11/2020	08/18/2020	2020	160	Solar	Level 1
20-02518	03/11/2020	07/23/2020	2020	134	Solar	Level 1
20-02519	03/11/2020	06/11/2020	2020	92	Solar	Level 1
20-02520	03/11/2020	06/12/2020	2020	93	Solar	Level 1
20-02521	03/11/2020	12/08/2020	2020	272	Solar	Level 1
20-02522	03/11/2020	08/23/2020	2020	165	Solar	Level 1
20-02523	03/11/2020	06/30/2020	2020	111	Solar	Level 1
20-02524	03/11/2020	06/25/2020	2020	106	Solar	Level 1
20-02525	03/11/2020	06/12/2020	2020	93	Solar	Level 1
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20-02527	03/11/2020	09/23/2020	2020	196	Solar	Level 1
20-02529	03/11/2020	06/12/2020	2020	93	Solar	Level 1
20-02530	03/11/2020	09/04/2020	2020	177	Solar	Level 1
20-02534	03/11/2020	09/03/2020	2020	176	Solar	Level 1
20-02537	03/11/2020	06/01/2020	2020	82	Solar	Level 1
20-02539	03/11/2020	08/20/2020	2020	162	Solar	Level 1

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20-02542	03/11/2020	07/23/2020	2020	134	Solar	Level 1
20-02544	03/11/2020	06/12/2020	2020	93	Solar	Level 1
20-02545	03/11/2020	08/19/2020	2020	161	Solar	Level 1
20-02548	03/11/2020	06/29/2020	2020	110	Solar	Level 1
20-02549	03/11/2020	08/20/2020	2020	162	Solar	Level 1
20-02550	03/11/2020	09/20/2020	2020	193	Solar	Level 1
20-02551	03/11/2020	07/20/2020	2020	131	Solar	Level 1
20-02552	03/11/2020	04/14/2020	2020	34	Solar	Level 1
20-02553	03/11/2020	08/10/2020	2020	152	Solar	Level 1
20-02554	03/11/2020	06/07/2020	2020	88	Solar	Level 1
20-02555	03/11/2020	09/22/2020	2020	195	Solar	Level 1
20-02556	03/12/2020	06/12/2020	2020	92	Solar	Level 1
20-02558	03/12/2020	06/12/2020	2020	92	Solar	Level 1
20-02559	03/12/2020	06/29/2020	2020	109	Solar	Level 1
20-02562	03/12/2020	06/07/2020	2020	87	Solar	Level 1
20-02563	03/12/2020	10/07/2020	2020	209	Solar	Level 1
20-02564	03/12/2020	09/24/2020	2020	196	Solar	Level 1
20-02566	03/12/2020	06/14/2020	2020	94	Solar	Level 1
20-02567	03/12/2020	09/13/2020	2020	185	Solar	Level 1
20-02568	03/12/2020	04/22/2020	2020	41	Solar	Level 1
20-02569	03/12/2020	06/12/2020	2020	92	Solar	Level 1
20-02570	03/12/2020	04/27/2020	2020	46	Solar	Level 1
20-02571	03/12/2020	04/01/2020	2020	20	Solar	Level 1
20-02572	03/12/2020	06/11/2020	2020	91	Solar	Level 1
20-02573	03/12/2020	05/26/2020	2020	75	Solar	Level 1
20-02575	03/12/2020	07/09/2020	2020	119	Solar	Level 1
20-02576	03/12/2020	08/12/2020	2020	153	Solar	Level 1
20-02577	03/12/2020	05/21/2020	2020	70	Solar	Level 1
20-02578	03/12/2020	05/27/2020	2020	76	Solar	Level 1
20-02580	03/12/2020	08/20/2020	2020	161	Solar	Level 1
20-02581	03/12/2020	05/07/2020	2020	56	Solar	Level 1
20-02583	03/12/2020	06/30/2020	2020	110	Solar	Level 1
20-02584	03/12/2020	08/21/2020	2020	162	Solar	Level 1
20-02586	03/12/2020	10/14/2020	2020	216	Solar	Level 1
20-02587	03/13/2020	08/10/2020	2020	150	Solar	Level 1
20-02588	03/13/2020	06/24/2020	2020	103	Solar	Level 1
20-02589	03/13/2020	06/23/2020	2020	102	Solar	Level 1
20-02590	03/13/2020	07/23/2020	2020	132	Solar	Level 1
20-02591	03/13/2020	10/21/2020	2020	222	Solar	Level 1
20-02592	03/13/2020	07/28/2020	2020	137	Solar	Level 1

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20-02596	03/13/2020	08/21/2020	2020	161	Solar	Level 2
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20-02624	03/16/2020	04/21/2020	2020	36	Solar	Level 1
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20-02642	03/16/2020	09/10/2020	2020	178	Solar	Level 1
20-02643	03/16/2020	11/02/2020	2020	231	Solar	Level 1
20-02644	03/16/2020	05/18/2020	2020	63	Solar	Level 1
20-02647	03/16/2020	08/18/2020	2020	155	Solar	Level 1
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20-02663	03/16/2020	08/23/2020	2020	160	Solar	Level 1
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20-02665	03/16/2020	05/04/2020	2020	49	Solar	Level 1
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20-02678	03/17/2020	05/05/2020	2020	49	Solar	Level 1
20-02679	03/17/2020	06/05/2020	2020	80	Solar	Level 1
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20-02683	03/17/2020	06/15/2020	2020	90	Solar	Level 1
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20-02705	03/17/2020	06/02/2020	2020	77	Solar	Level 1
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20-02819	03/19/2020	11/06/2020	2020	232	Solar	Level 1
20-02820	03/19/2020	08/21/2020	2020	155	Solar	Level 1
20-02821	03/19/2020	09/08/2020	2020	173	Solar	Level 1
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20-02955	03/23/2020	07/29/2020	2020	128	Solar	Level 1
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20-02959	03/24/2020	06/01/2020	2020	69	Solar	Level 1
20-02960	03/24/2020	05/26/2020	2020	63	Solar	Level 1
20-02962	03/24/2020	06/03/2020	2020	71	Solar	Level 1
20-02963	03/24/2020	10/05/2020	2020	195	Solar	Level 1
20-02964	03/24/2020	06/05/2020	2020	73	Solar	Level 1
20-02966	03/24/2020	05/18/2020	2020	55	Solar	Level 1
20-02967	03/24/2020	07/09/2020	2020	107	Solar	Level 1
20-02968	03/24/2020	08/05/2020	2020	134	Solar	Level 1
20-02973	03/24/2020	09/22/2020	2020	182	Solar	Level 1
20-02974	03/24/2020	08/04/2020	2020	133	Solar	Level 1
20-02975	03/24/2020	08/10/2020	2020	139	Solar	Level 1
20-02976	03/24/2020	09/14/2020	2020	174	Solar	Level 1
20-02978	03/24/2020	06/25/2020	2020	93	Solar	Level 1
20-02980	03/24/2020	08/12/2020	2020	141	Solar	Level 1
20-02981	03/24/2020	06/24/2020	2020	92	Solar	Level 1
20-02982	03/24/2020	06/12/2020	2020	80	Solar	Level 1
20-02983	03/24/2020	08/04/2020	2020	133	Solar	Level 1
20-02984	03/24/2020	05/28/2020	2020	65	Solar	Level 1
20-02985	03/24/2020	05/26/2020	2020	63	Solar	Level 1
20-02987	03/24/2020	04/23/2020	2020	30	Solar	Level 1
20-02988	03/24/2020	06/12/2020	2020	80	Solar	Level 1
20-02989	03/24/2020	08/07/2020	2020	136	Solar	Level 1
20-02990	03/24/2020	08/19/2020	2020	148	Solar	Level 1
20-02991	03/24/2020	06/12/2020	2020	80	Solar	Level 1
20-02993	03/24/2020	08/13/2020	2020	142	Solar	Level 1
20-02994	03/24/2020	09/14/2020	2020	174	Solar	Level 1
20-02995	03/24/2020	08/07/2020	2020	136	Solar	Level 1
20-02996	03/24/2020	06/10/2020	2020	78	Solar	Level 1
20-02997	03/24/2020	08/02/2020	2020	131	Solar	Level 1
20-03000	03/24/2020	10/06/2020	2020	196	Solar	Level 1
20-03001	03/24/2020	08/20/2020	2020	149	Solar	Level 1
20-03002	03/24/2020	06/03/2020	2020	71	Solar	Level 1
20-03004	03/24/2020	07/17/2020	2020	115	Solar	Level 1
20-03006	03/24/2020	09/02/2020	2020	162	Solar	Level 1
20-03008	03/24/2020	08/24/2020	2020	153	Solar	Level 1

20-03009	03/24/2020	06/07/2020	2020	75	Solar	Level 1
20-03010	03/24/2020	09/22/2020	2020	182	Solar	Level 1
20-03011	03/24/2020	09/16/2020	2020	176	Solar	Level 1
20-03012	03/24/2020	06/29/2020	2020	97	Solar	Level 1
20-03014	03/24/2020	06/30/2020	2020	98	Solar	Level 1
20-03016	03/24/2020	07/29/2020	2020	127	Solar	Level 1
20-03017	03/24/2020	08/21/2020	2020	150	Solar	Level 1
20-03018	03/24/2020	06/02/2020	2020	70	Solar	Level 1
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20-03023	03/24/2020	08/24/2020	2020	153	Solar	Level 1
20-03024	03/24/2020	09/10/2020	2020	170	Solar	Level 1
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20-03029	03/25/2020	08/21/2020	2020	149	Solar	Level 1
20-03031	03/25/2020	09/14/2020	2020	173	Solar	Level 1
20-03032	03/25/2020	05/26/2020	2020	62	Solar	Level 1
20-03033	03/25/2020	05/07/2020	2020	43	Solar	Level 1
20-03034	03/25/2020	05/11/2020	2020	47	Solar	Level 1
20-03035	03/25/2020	04/27/2020	2020	33	Solar	Level 1
20-03037	03/25/2020	06/29/2020	2020	96	Solar	Level 1
20-03038	03/25/2020	05/18/2020	2020	54	Solar	Level 1
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20-03042	03/25/2020	04/29/2020	2020	35	Solar	Level 1
20-03043	03/25/2020	05/18/2020	2020	54	Solar	Level 1
20-03045	03/25/2020	08/20/2020	2020	148	Solar	Level 1
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20-03047	03/25/2020	09/20/2020	2020	179	Solar	Level 1
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20-03052	03/25/2020	05/20/2020	2020	56	Solar	Level 1
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20-03054	03/25/2020	05/28/2020	2020	64	Solar	Level 1
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20-03057	03/25/2020	06/07/2020	2020	74	Solar	Level 1
20-03060	03/25/2020	06/03/2020	2020	70	Solar	Level 1
20-03061	03/25/2020	07/22/2020	2020	119	Solar	Level 1
20-03062	03/25/2020	05/05/2020	2020	41	Solar	Level 1
20-03063	03/25/2020	06/29/2020	2020	96	Solar	Level 1
20-03064	03/25/2020	05/26/2020	2020	62	Solar	Level 1
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20-03069	03/25/2020	05/04/2020	2020	40	Solar	Level 1
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20-03071	03/25/2020	06/08/2020	2020	75	Solar	Level 1
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20-03073	03/25/2020	09/10/2020	2020	169	Solar	Level 1
20-03078	03/25/2020	06/29/2020	2020	96	Solar	Level 1
20-03079	03/25/2020	06/25/2020	2020	92	Solar	Level 1
20-03080	03/25/2020	06/01/2020	2020	68	Solar	Level 1
20-03081	03/25/2020	06/09/2020	2020	76	Solar	Level 1
20-03082	03/25/2020	06/01/2020	2020	68	Solar	Level 1
20-03083	03/25/2020	12/29/2020	2020	279	Solar	Level 1
20-03084	03/25/2020	06/17/2020	2020	84	Solar	Level 1
20-03085	03/25/2020	05/11/2020	2020	47	Solar	Level 1
20-03088	03/25/2020	06/29/2020	2020	96	Solar	Level 1
20-03089	03/25/2020	05/22/2020	2020	58	Solar	Level 1
20-03091	03/25/2020	07/24/2020	2020	121	Solar	Level 1
20-03092	03/25/2020	06/12/2020	2020	79	Solar	Level 1
20-03093	03/25/2020	08/20/2020	2020	148	Solar	Level 1
20-03095	03/25/2020	06/02/2020	2020	69	Solar	Level 1
20-03096	03/25/2020	07/21/2020	2020	118	Solar	Level 1
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20-03099	03/25/2020	09/18/2020	2020	177	Solar	Level 1
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20-03104	03/26/2020	10/01/2020	2020	189	Solar	Level 1
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20-03114	03/26/2020	08/19/2020	2020	146	Solar	Level 1
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20-03116	03/26/2020	07/28/2020	2020	124	Solar	Level 1
20-03117	03/26/2020	05/07/2020	2020	42	Solar	Level 1
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20-03119	03/26/2020	05/22/2020	2020	57	Solar	Level 1
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20-03124	03/26/2020	08/20/2020	2020	147	Solar	Level 1
20-03126	03/26/2020	07/20/2020	2020	116	Solar	Level 1
20-03127	03/26/2020	07/21/2020	2020	117	Solar	Level 1
20-03128	03/26/2020	06/12/2020	2020	78	Solar	Level 1
20-03129	03/26/2020	05/12/2020	2020	47	Solar	Level 1
20-03130	03/26/2020	07/16/2020	2020	112	Solar	Level 1
20-03131	03/26/2020	06/12/2020	2020	78	Solar	Level 1
20-03132	03/26/2020	05/26/2020	2020	61	Solar	Level 1
20-03133	03/26/2020	05/27/2020	2020	62	Solar	Level 1
20-03134	03/26/2020	08/19/2020	2020	146	Solar	Level 1
20-03135	03/26/2020	08/10/2020	2020	137	Solar	Level 1
20-03136	03/26/2020	06/10/2020	2020	76	Solar	Level 1
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20-03138	03/26/2020	09/04/2020	2020	162	Solar	Level 1
20-03139	03/26/2020	05/11/2020	2020	46	Solar	Level 1
20-03140	03/26/2020	06/25/2020	2020	91	Solar	Level 1
20-03141	03/26/2020	10/08/2020	2020	196	Solar	Level 1
20-03144	03/26/2020	05/20/2020	2020	55	Solar	Level 1
20-03145	03/26/2020	07/10/2020	2020	106	Solar	Level 2
20-03148	03/26/2020	05/20/2020	2020	55	Solar	Level 1
20-03149	03/26/2020	05/11/2020	2020	46	Solar	Level 1
20-03150	03/26/2020	08/11/2020	2020	138	Solar	Level 1
20-03151	03/26/2020	06/17/2020	2020	83	Solar	Level 1
20-03152	03/26/2020	06/16/2020	2020	82	Solar	Level 1
20-03153	03/26/2020	11/06/2020	2020	225	Solar	Level 1
20-03154	03/26/2020	07/19/2020	2020	115	Solar	Level 1
20-03157	03/27/2020	06/22/2020	2020	87	Solar	Level 1
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20-03159	03/27/2020	05/18/2020	2020	52	Solar	Level 1
20-03160	03/27/2020	05/14/2020	2020	48	Solar	Level 1
20-03163	03/27/2020	07/20/2020	2020	115	Solar	Level 1
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20-03167	03/27/2020	08/20/2020	2020	146	Solar	Level 1
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20-03170	03/27/2020	10/15/2020	2020	202	Solar	Level 1
20-03171	03/27/2020	04/02/2020	2020	6	Solar	Level 1
20-03172	03/27/2020	06/12/2020	2020	77	Solar	Level 1
20-03174	03/27/2020	08/19/2020	2020	145	Solar	Level 1
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20-03177	03/27/2020	08/19/2020	2020	145	Solar	Level 1
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20-03183	03/27/2020	10/05/2020	2020	192	Solar	Level 1
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20-03187	03/27/2020	07/17/2020	2020	112	Solar	Level 1
20-03188	03/27/2020	08/20/2020	2020	146	Solar	Level 1
20-03189	03/27/2020	07/29/2020	2020	124	Solar	Level 1
20-03190	03/27/2020	06/29/2020	2020	94	Solar	Level 1
20-03191	03/27/2020	06/29/2020	2020	94	Solar	Level 1
20-03192	03/27/2020	06/29/2020	2020	94	Solar	Level 1
20-03193	03/27/2020	07/19/2020	2020	114	Solar	Level 1
20-03195	03/27/2020	05/07/2020	2020	41	Solar	Level 1
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20-03216	03/28/2020	06/07/2020	2020	71	Solar	Level 1
20-03218	03/28/2020	08/26/2020	2020	151	Solar	Level 1
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20-03232	03/30/2020	08/15/2020	2020	138	Solar	Level 1
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20-03235	03/30/2020	05/07/2020	2020	38	Solar	Level 1
20-03236	03/30/2020	06/22/2020	2020	84	Solar	Level 1
20-03238	03/30/2020	08/21/2020	2020	144	Solar	Level 1
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20-03245	03/30/2020	06/05/2020	2020	67	Solar	Level 1
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20-03251	03/30/2020	08/21/2020	2020	144	Solar	Level 1
20-03252	03/30/2020	10/16/2020	2020	200	Solar	Level 1
20-03253	03/30/2020	12/10/2020	2020	255	Solar	Level 1
20-03255	03/30/2020	07/16/2020	2020	108	Solar	Level 1
20-03259	03/30/2020	08/10/2020	2020	133	Solar	Level 1
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20-03262	03/30/2020	06/11/2020	2020	73	Solar	Level 1
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20-03269	03/30/2020	11/05/2020	2020	220	Solar	Level 1
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20-03271	03/30/2020	06/19/2020	2020	81	Solar	Level 1
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20-03277	03/30/2020	07/21/2020	2020	113	Solar	Level 1
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20-03283	03/30/2020	05/20/2020	2020	51	Solar	Level 1
20-03285	03/30/2020	10/26/2020	2020	210	Solar	Level 1
20-03286	03/30/2020	06/12/2020	2020	74	Solar	Level 1
20-03287	03/30/2020	09/30/2020	2020	184	Solar	Level 1
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20-03292	03/30/2020	04/26/2020	2020	27	Solar	Level 1
20-03293	03/30/2020	08/20/2020	2020	143	Solar	Level 1
20-03294	03/30/2020	09/23/2020	2020	177	Solar	Level 1
20-03297	03/30/2020	07/14/2020	2020	106	Solar	Level 1
20-03298	03/30/2020	06/29/2020	2020	91	Solar	Level 1

20-03299	03/30/2020	12/10/2020	2020	255	Solar	Level 1
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20-03346	03/31/2020	06/18/2020	2020	79	Solar	Level 1
20-03347	03/31/2020	12/18/2020	2020	262	Solar	Level 1
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20-03377	04/01/2020	06/22/2020	2020	82	Solar	Level 1
20-03379	04/01/2020	06/22/2020	2020	82	Solar	Level 1
20-03380	04/01/2020	06/03/2020	2020	63	Solar	Level 1
20-03381	04/01/2020	07/20/2020	2020	110	Solar	Level 1
20-03382	04/01/2020	06/11/2020	2020	71	Solar	Level 1
20-03383	04/01/2020	09/25/2020	2020	177	Solar	Level 1
20-03388	04/01/2020	06/16/2020	2020	76	Solar	Level 1
20-03390	04/01/2020	10/23/2020	2020	205	Solar	Level 1
20-03392	04/01/2020	06/25/2020	2020	85	Solar	Level 1
20-03393	04/01/2020	08/20/2020	2020	141	Solar	Level 1
20-03395	04/01/2020	06/23/2020	2020	83	Solar	Level 1
20-03396	04/01/2020	08/18/2020	2020	139	Solar	Level 1
20-03397	04/01/2020	09/16/2020	2020	168	Solar	Level 1
20-03399	04/01/2020	08/18/2020	2020	139	Solar	Level 1
20-03400	04/01/2020	06/29/2020	2020	89	Solar	Level 1
20-03402	04/01/2020	06/29/2020	2020	89	Solar	Level 1
20-03403	04/01/2020	06/19/2020	2020	79	Solar	Level 1
20-03404	04/01/2020	06/14/2020	2020	74	Solar	Level 1
20-03405	04/01/2020	08/20/2020	2020	141	Solar	Level 1
20-03407	04/01/2020	07/17/2020	2020	107	Solar	Level 1
20-03408	04/01/2020	06/29/2020	2020	89	Solar	Level 1
20-03409	04/01/2020	08/18/2020	2020	139	Solar	Level 1
20-03410	04/01/2020	08/20/2020	2020	141	Solar	Level 1
20-03412	04/01/2020	06/02/2020	2020	62	Solar	Level 1
20-03413	04/01/2020	09/06/2020	2020	158	Solar	Level 1
20-03415	04/01/2020	07/21/2020	2020	111	Solar	Level 1
20-03416	04/01/2020	08/18/2020	2020	139	Solar	Level 1
20-03419	04/02/2020	09/28/2020	2020	179	Solar	Level 1
20-03420	04/02/2020	09/28/2020	2020	179	Solar	Level 1
20-03422	04/02/2020	06/26/2020	2020	85	Solar	Level 1
20-03425	04/02/2020	08/02/2020	2020	122	Solar	Level 1
20-03426	04/02/2020	05/11/2020	2020	39	Solar	Level 1

20-03427	04/02/2020	09/14/2020	2020	165	Solar	Level 1
20-03429	04/02/2020	10/01/2020	2020	182	Solar	Level 1
20-03431	04/02/2020	06/17/2020	2020	76	Solar	Level 1
20-03432	04/02/2020	08/04/2020	2020	124	Solar	Level 1
20-03433	04/02/2020	08/19/2020	2020	139	Solar	Level 1
20-03434	04/02/2020	06/29/2020	2020	88	Solar	Level 1
20-03436	04/02/2020	06/29/2020	2020	88	Solar	Level 1
20-03437	04/02/2020	05/27/2020	2020	55	Solar	Level 1
20-03438	04/02/2020	12/03/2020	2020	245	Solar	Level 1
20-03440	04/03/2020	06/25/2020	2020	83	Solar	Level 1
20-03441	04/03/2020	07/21/2020	2020	109	Solar	Level 1
20-03443	04/03/2020	08/29/2020	2020	148	Solar	Level 1
20-03444	04/03/2020	12/07/2020	2020	248	Solar	Level 1
20-03446	04/03/2020	11/04/2020	2020	215	Solar	Level 1
20-03447	04/03/2020	07/16/2020	2020	104	Solar	Level 1
20-03448	04/03/2020	08/20/2020	2020	139	Solar	Level 1
20-03451	04/03/2020	12/02/2020	2020	243	Solar	Level 1
20-03452	04/03/2020	05/06/2020	2020	33	Solar	Level 1
20-03453	04/03/2020	10/08/2020	2020	188	Solar	Level 1
20-03454	04/03/2020	06/12/2020	2020	70	Solar	Level 1
20-03455	04/03/2020	05/05/2020	2020	32	Solar	Level 1
20-03457	04/03/2020	10/13/2020	2020	193	Solar	Level 1
20-03458	04/03/2020	06/24/2020	2020	82	Solar	Level 1
20-03459	04/03/2020	08/07/2020	2020	126	Solar	Level 1
20-03460	04/03/2020	08/18/2020	2020	137	Solar	Level 1
20-03462	04/03/2020	05/27/2020	2020	54	Solar	Level 1
20-03465	04/03/2020	07/14/2020	2020	102	Solar	Level 1
20-03466	04/03/2020	05/15/2020	2020	42	Solar	Level 1
20-03468	04/03/2020	12/10/2020	2020	251	Solar	Level 1
20-03469	04/03/2020	06/19/2020	2020	77	Solar	Level 1
20-03470	04/03/2020	06/17/2020	2020	75	Solar	Level 1
20-03472	04/03/2020	07/21/2020	2020	109	Solar	Level 1
20-03473	04/03/2020	06/18/2020	2020	76	Solar	Level 1
20-03476	04/03/2020	08/21/2020	2020	140	Solar	Level 1
20-03477	04/03/2020	06/30/2020	2020	88	Solar	Level 1
20-03480	04/03/2020	06/26/2020	2020	84	Solar	Level 1
20-03481	04/03/2020	10/02/2020	2020	182	Solar	Level 1
20-03484	04/03/2020	07/14/2020	2020	102	Solar	Level 1
20-03485	04/03/2020	07/30/2020	2020	118	Solar	Level 1
20-03486	04/03/2020	04/13/2020	2020	10	Solar	Level 1
20-03487	04/03/2020	08/20/2020	2020	139	Solar	Level 1

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20-03490	04/03/2020	11/04/2020	2020	215	Solar	Level 1
20-03491	04/03/2020	11/03/2020	2020	214	Solar	Level 1
20-03493	04/03/2020	07/24/2020	2020	112	Solar	Level 1
20-03494	04/03/2020	05/26/2020	2020	53	Solar	Level 1
20-03496	04/03/2020	07/09/2020	2020	97	Solar	Level 1
20-03497	04/03/2020	06/02/2020	2020	60	Solar	Level 1
20-03498	04/03/2020	05/11/2020	2020	38	Solar	Level 1
20-03499	04/03/2020	04/13/2020	2020	10	Solar	Level 1
20-03500	04/03/2020	05/14/2020	2020	41	Solar	Level 1
20-03501	04/03/2020	04/14/2020	2020	11	Solar	Level 1
20-03505	04/05/2020	04/15/2020	2020	10	Solar	Level 1
20-03506	04/06/2020	05/20/2020	2020	44	Solar	Level 1
20-03509	04/06/2020	06/15/2020	2020	70	Solar	Level 1
20-03510	04/06/2020	09/22/2020	2020	169	Solar	Level 1
20-03511	04/06/2020	08/18/2020	2020	134	Solar	Level 1
20-03513	04/06/2020	09/15/2020	2020	162	Solar	Level 1
20-03515	04/06/2020	08/27/2020	2020	143	Solar	Level 1
20-03516	04/06/2020	06/15/2020	2020	70	Solar	Level 1
20-03517	04/06/2020	05/15/2020	2020	39	Solar	Level 1
20-03518	04/06/2020	09/10/2020	2020	157	Solar	Level 1
20-03520	04/06/2020	08/19/2020	2020	135	Solar	Level 1
20-03523	04/06/2020	12/29/2020	2020	267	Solar	Level 1
20-03525	04/06/2020	05/11/2020	2020	35	Solar	Level 1
20-03533	04/06/2020	08/19/2020	2020	135	Solar	Level 1
20-03536	04/06/2020	05/14/2020	2020	38	Solar	Level 1
20-03551	04/06/2020	05/11/2020	2020	35	Solar	Level 1
20-03554	04/06/2020	06/29/2020	2020	84	Solar	Level 1
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20-03557	04/06/2020	06/12/2020	2020	67	Solar	Level 1
20-03564	04/06/2020	05/07/2020	2020	31	Solar	Level 1
20-03565	04/06/2020	05/12/2020	2020	36	Solar	Level 1
20-03566	04/06/2020	07/21/2020	2020	106	Solar	Level 1
20-03567	04/06/2020	06/08/2020	2020	63	Solar	Level 1
20-03568	04/06/2020	10/01/2020	2020	178	Solar	Level 1
20-03569	04/06/2020	05/11/2020	2020	35	Solar	Level 1
20-03570	04/06/2020	10/20/2020	2020	197	Solar	Level 1
20-03572	04/06/2020	08/18/2020	2020	134	Solar	Level 1
20-03573	04/06/2020	06/19/2020	2020	74	Solar	Level 1
20-03574	04/06/2020	05/08/2020	2020	32	Solar	Level 1

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20-03577	04/07/2020	10/23/2020	2020	199	Solar	Level 1
20-03578	04/07/2020	09/23/2020	2020	169	Solar	Level 1
20-03579	04/07/2020	06/29/2020	2020	83	Solar	Level 1
20-03580	04/07/2020	06/11/2020	2020	65	Solar	Level 1
20-03581	04/07/2020	12/15/2020	2020	252	Solar	Level 1
20-03582	04/07/2020	07/31/2020	2020	115	Solar	Level 1
20-03583	04/07/2020	06/15/2020	2020	69	Solar	Level 1
20-03584	04/07/2020	05/22/2020	2020	45	Solar	Level 1
20-03586	04/07/2020	06/30/2020	2020	84	Solar	Level 1
20-03587	04/07/2020	05/12/2020	2020	35	Solar	Level 1
20-03588	04/07/2020	10/13/2020	2020	189	Solar	Level 1
20-03589	04/07/2020	06/14/2020	2020	68	Solar	Level 1
20-03591	04/07/2020	08/20/2020	2020	135	Solar	Level 1
20-03592	04/07/2020	08/20/2020	2020	135	Solar	Level 1
20-03593	04/07/2020	08/19/2020	2020	134	Solar	Level 1
20-03595	04/07/2020	09/22/2020	2020	168	Solar	Level 1
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20-03606	04/07/2020	07/21/2020	2020	105	Solar	Level 1
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20-03608	04/07/2020	08/26/2020	2020	141	Solar	Level 1
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20-03612	04/07/2020	11/13/2020	2020	220	Solar	Level 1
20-03613	04/07/2020	11/03/2020	2020	210	Solar	Level 1
20-03614	04/07/2020	06/18/2020	2020	72	Solar	Level 1
20-03615	04/07/2020	06/09/2020	2020	63	Solar	Level 1
20-03616	04/07/2020	08/26/2020	2020	141	Solar	Level 1
20-03617	04/07/2020	06/29/2020	2020	83	Solar	Level 1
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20-03622	04/08/2020	08/18/2020	2020	132	Solar	Level 1
20-03623	04/08/2020	12/17/2020	2020	253	Solar	Level 1
20-03624	04/08/2020	06/16/2020	2020	69	Solar	Level 1
20-03625	04/08/2020	10/23/2020	2020	198	Solar	Level 1
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20-03633	04/08/2020	06/19/2020	2020	72	Solar	Level 1
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20-03638	04/08/2020	06/29/2020	2020	82	Solar	Level 1
20-03641	04/08/2020	04/24/2020	2020	16	Solar	Level 1
20-03642	04/08/2020	05/19/2020	2020	41	Solar	Level 1
20-03643	04/08/2020	06/29/2020	2020	82	Solar	Level 1
20-03644	04/08/2020	09/16/2020	2020	161	Solar	Level 1
20-03645	04/08/2020	05/02/2020	2020	24	Solar	Level 1
20-03646	04/08/2020	08/18/2020	2020	132	Solar	Level 1
20-03648	04/09/2020	06/30/2020	2020	82	Solar	Level 1
20-03649	04/09/2020	12/31/2020	2020	266	Solar	Level 1
20-03651	04/09/2020	09/25/2020	2020	169	Solar	Level 1
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20-03654	04/09/2020	04/29/2020	2020	20	Solar	Level 1
20-03655	04/09/2020	08/21/2020	2020	134	Solar	Level 2
20-03658	04/09/2020	08/20/2020	2020	133	Solar	Level 1
20-03662	04/09/2020	10/09/2020	2020	183	Solar	Level 1
20-03663	04/09/2020	06/04/2020	2020	56	Solar	Level 1
20-03664	04/09/2020	09/17/2020	2020	161	Solar	Level 1
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20-03673	04/09/2020	05/20/2020	2020	41	Solar	Level 1
20-03674	04/09/2020	12/08/2020	2020	243	Solar	Level 1
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20-03677	04/09/2020	06/29/2020	2020	81	Solar	Level 1
20-03678	04/09/2020	08/20/2020	2020	133	Solar	Level 1
20-03679	04/09/2020	08/18/2020	2020	131	Solar	Level 1
20-03681	04/10/2020	05/05/2020	2020	25	Solar	Level 1
20-03682	04/10/2020	08/10/2020	2020	122	Solar	Level 1
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20-03692	04/10/2020	08/18/2020	2020	130	Solar	Level 1
20-03693	04/10/2020	08/20/2020	2020	132	Solar	Level 1
20-03695	04/10/2020	07/23/2020	2020	104	Solar	Level 1
20-03699	04/10/2020	12/22/2020	2020	256	Solar	Level 1
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20-03706	04/10/2020	11/09/2020	2020	213	Solar	Level 1
20-03709	04/12/2020	09/11/2020	2020	152	Solar	Level 1
20-03710	04/12/2020	12/21/2020	2020	253	Solar	Level 1
20-03716	04/13/2020	07/07/2020	2020	85	Solar	Level 1
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20-03739	04/13/2020	08/10/2020	2020	119	Solar	Level 1
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20-03742	04/14/2020	08/21/2020	2020	129	Solar	Level 1
20-03743	04/14/2020	05/19/2020	2020	35	Solar	Level 1
20-03744	04/14/2020	06/12/2020	2020	59	Solar	Level 1
20-03747	04/14/2020	08/10/2020	2020	118	Solar	Level 1
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20-03797	04/15/2020	06/11/2020	2020	57	Solar	Level 1
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20-03837	04/16/2020	08/18/2020	2020	124	Solar	Level 1
20-03838	04/16/2020	09/25/2020	2020	162	Solar	Level 1
20-03839	04/16/2020	11/16/2020	2020	214	Solar	Level 1
20-03840	04/16/2020	10/20/2020	2020	187	Solar	Level 1
20-03841	04/16/2020	08/28/2020	2020	134	Solar	Level 1
20-03842	04/16/2020	10/02/2020	2020	169	Solar	Level 1
20-03843	04/16/2020	06/02/2020	2020	47	Solar	Level 1
20-03844	04/16/2020	08/10/2020	2020	116	Solar	Level 1
20-03845	04/16/2020	06/24/2020	2020	69	Solar	Level 1
20-03846	04/16/2020	06/04/2020	2020	49	Solar	Level 1
20-03848	04/16/2020	08/10/2020	2020	116	Solar	Level 1
20-03850	04/16/2020	08/13/2020	2020	119	Solar	Level 1
20-03852	04/16/2020	06/07/2020	2020	52	Solar	Level 1
20-03854	04/16/2020	08/02/2020	2020	108	Solar	Level 1
20-03855	04/16/2020	06/15/2020	2020	60	Solar	Level 1
20-03859	04/16/2020	06/15/2020	2020	60	Solar	Level 1
20-03860	04/16/2020	07/09/2020	2020	84	Solar	Level 1
20-03861	04/16/2020	08/20/2020	2020	126	Solar	Level 1
20-03863	04/16/2020	05/28/2020	2020	42	Solar	Level 1
20-03864	04/16/2020	08/11/2020	2020	117	Solar	Level 1
20-03865	04/17/2020	08/10/2020	2020	115	Solar	Level 1
20-03866	04/17/2020	08/18/2020	2020	123	Solar	Level 1
20-03867	04/17/2020	10/05/2020	2020	171	Solar	Level 1
20-03868	04/17/2020	09/03/2020	2020	139	Solar	Level 1
20-03870	04/17/2020	08/20/2020	2020	125	Solar	Level 1
20-03871	04/17/2020	07/31/2020	2020	105	Solar	Level 1
20-03872	04/17/2020	10/16/2020	2020	182	Solar	Level 1
20-03873	04/17/2020	08/05/2020	2020	110	Solar	Level 1
20-03874	04/17/2020	08/20/2020	2020	125	Solar	Level 1
20-03877	04/17/2020	07/17/2020	2020	91	Solar	Level 1
20-03879	04/17/2020	06/19/2020	2020	63	Solar	Level 1

20-03881	04/17/2020	07/09/2020	2020	83	Solar	Level 1
20-03882	04/17/2020	06/17/2020	2020	61	Solar	Level 1
20-03883	04/17/2020	08/27/2020	2020	132	Solar	Level 2
20-03885	04/17/2020	05/01/2020	2020	14	Solar	Level 1
20-03886	04/17/2020	06/11/2020	2020	55	Solar	Level 1
20-03887	04/17/2020	06/09/2020	2020	53	Solar	Level 1
20-03890	04/17/2020	08/09/2020	2020	114	Solar	Level 1
20-03891	04/17/2020	11/25/2020	2020	222	Solar	Level 1
20-03893	04/17/2020	09/30/2020	2020	166	Solar	Level 1
20-03894	04/17/2020	07/20/2020	2020	94	Solar	Level 1
20-03895	04/17/2020	09/22/2020	2020	158	Solar	Level 1
20-03896	04/17/2020	10/29/2020	2020	195	Solar	Level 1
20-03897	04/17/2020	06/03/2020	2020	47	Solar	Level 1
20-03898	04/17/2020	09/22/2020	2020	158	Solar	Level 1
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20-03905	04/17/2020	06/22/2020	2020	66	Solar	Level 1
20-03906	04/17/2020	05/19/2020	2020	32	Solar	Level 1
20-03907	04/17/2020	08/07/2020	2020	112	Solar	Level 1
20-03908	04/17/2020	12/31/2020	2020	258	Solar	Level 1
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20-03912	04/17/2020	07/17/2020	2020	91	Solar	Level 1
20-03913	04/17/2020	07/09/2020	2020	83	Solar	Level 1
20-03914	04/19/2020	07/14/2020	2020	86	Solar	Level 1
20-03916	04/20/2020	06/25/2020	2020	66	Solar	Level 1
20-03917	04/20/2020	07/07/2020	2020	78	Solar	Level 1
20-03921	04/20/2020	08/21/2020	2020	123	Solar	Level 1
20-03922	04/20/2020	06/24/2020	2020	65	Solar	Level 1
20-03923	04/20/2020	08/06/2020	2020	108	Solar	Level 1
20-03924	04/20/2020	08/21/2020	2020	123	Solar	Level 1
20-03925	04/20/2020	05/20/2020	2020	30	Solar	Level 1
20-03926	04/20/2020	08/05/2020	2020	107	Solar	Level 1
20-03928	04/20/2020	09/10/2020	2020	143	Solar	Level 1
20-03931	04/20/2020	06/30/2020	2020	71	Solar	Level 1
20-03932	04/20/2020	11/19/2020	2020	213	Solar	Level 1
20-03933	04/20/2020	09/23/2020	2020	156	Solar	Level 1
20-03934	04/20/2020	09/23/2020	2020	156	Solar	Level 1
20-03936	04/20/2020	09/22/2020	2020	155	Solar	Level 1
20-03937	04/20/2020	08/06/2020	2020	108	Solar	Level 1
20-03938	04/20/2020	09/10/2020	2020	143	Solar	Level 1
20-03939	04/20/2020	08/12/2020	2020	114	Solar	Level 1

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20-03945	04/21/2020	06/16/2020	2020	56	Solar	Level 1
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20-03947	04/21/2020	06/12/2020	2020	52	Solar	Level 1
20-03948	04/21/2020	09/25/2020	2020	157	Solar	Level 1
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20-03950	04/21/2020	05/19/2020	2020	28	Solar	Level 1
20-03951	04/21/2020	08/18/2020	2020	119	Solar	Level 1
20-03954	04/21/2020	06/15/2020	2020	55	Solar	Level 1
20-03955	04/21/2020	07/17/2020	2020	87	Solar	Level 1
20-03958	04/21/2020	08/13/2020	2020	114	Solar	Level 1
20-03959	04/21/2020	07/20/2020	2020	90	Solar	Level 1
20-03961	04/21/2020	06/24/2020	2020	64	Solar	Level 1
20-03963	04/21/2020	06/24/2020	2020	64	Solar	Level 1
20-03964	04/21/2020	07/21/2020	2020	91	Solar	Level 1
20-03965	04/21/2020	08/11/2020	2020	112	Solar	Level 1
20-03966	04/21/2020	08/18/2020	2020	119	Solar	Level 1
20-03967	04/21/2020	06/30/2020	2020	70	Solar	Level 1
20-03968	04/21/2020	07/28/2020	2020	98	Solar	Level 1
20-03970	04/21/2020	07/09/2020	2020	79	Solar	Level 1
20-03971	04/21/2020	08/20/2020	2020	121	Solar	Level 1
20-03972	04/21/2020	06/15/2020	2020	55	Solar	Level 1
20-03973	04/21/2020	05/11/2020	2020	20	Solar	Level 1
20-03974	04/21/2020	12/28/2020	2020	251	Solar	Level 1
20-03976	04/21/2020	08/20/2020	2020	121	Solar	Level 1
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20-03979	04/21/2020	06/15/2020	2020	55	Solar	Level 1
20-03981	04/21/2020	07/21/2020	2020	91	Solar	Level 1
20-03982	04/21/2020	08/02/2020	2020	103	Solar	Level 1
20-03983	04/21/2020	06/12/2020	2020	52	Solar	Level 1
20-03985	04/21/2020	09/10/2020	2020	142	Solar	Level 1
20-03986	04/21/2020	05/06/2020	2020	15	Solar	Level 1
20-03987	04/21/2020	08/25/2020	2020	126	Solar	Level 1
20-03991	04/22/2020	06/24/2020	2020	63	Solar	Level 1
20-03993	04/22/2020	06/03/2020	2020	42	Solar	Level 1
20-03995	04/22/2020	08/28/2020	2020	128	Solar	Level 1
20-03997	04/22/2020	12/18/2020	2020	240	Solar	Level 1
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20-04002	04/22/2020	09/24/2020	2020	155	Solar	Level 1
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20-04012	04/22/2020	08/20/2020	2020	120	Solar	Level 1
20-04019	04/23/2020	10/20/2020	2020	180	Solar	Level 1
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20-04028	04/23/2020	08/21/2020	2020	120	Solar	Level 1
20-04029	04/23/2020	09/03/2020	2020	133	Solar	Level 1
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20-04034	04/23/2020	10/21/2020	2020	181	Solar	Level 1
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20-04037	04/23/2020	09/23/2020	2020	153	Solar	Level 1
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20-04045	04/23/2020	09/08/2020	2020	138	Solar	Level 1
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20-04047	04/24/2020	09/22/2020	2020	151	Solar	Level 1
20-04048	04/24/2020	06/22/2020	2020	59	Solar	Level 1
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20-04051	04/24/2020	07/24/2020	2020	91	Solar	Level 1
20-04052	04/24/2020	12/01/2020	2020	221	Solar	Level 1
20-04053	04/24/2020	07/17/2020	2020	84	Solar	Level 1
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20-04056	04/24/2020	06/30/2020	2020	67	Solar	Level 1
20-04058	04/24/2020	07/20/2020	2020	87	Solar	Level 1
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20-04076	04/24/2020	07/20/2020	2020	87	Solar	Level 1
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20-04080	04/24/2020	08/20/2020	2020	118	Solar	Level 1
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20-04089	04/24/2020	08/19/2020	2020	117	Solar	Level 1
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20-04097	04/27/2020	10/21/2020	2020	177	Solar	Level 1
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20-04102	04/27/2020	09/21/2020	2020	147	Solar	Level 1
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20-04107	04/27/2020	05/19/2020	2020	22	Solar	Level 1
20-04108	04/27/2020	08/21/2020	2020	116	Solar	Level 1
20-04109	04/27/2020	06/15/2020	2020	49	Solar	Level 1
20-04110	04/27/2020	08/21/2020	2020	116	Solar	Level 1
20-04111	04/27/2020	08/19/2020	2020	114	Solar	Level 1
20-04112	04/27/2020	11/01/2020	2020	188	Solar	Level 1
20-04113	04/27/2020	08/19/2020	2020	114	Solar	Level 1
20-04114	04/27/2020	06/08/2020	2020	42	Solar	Level 1
20-04115	04/27/2020	08/06/2020	2020	101	Solar	Level 1
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20-04125	04/27/2020	07/22/2020	2020	86	Solar	Level 1
20-04126	04/27/2020	08/19/2020	2020	114	Solar	Level 1
20-04127	04/27/2020	10/12/2020	2020	168	Solar	Level 1
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20-04131	04/28/2020	09/22/2020	2020	147	Solar	Level 1
20-04132	04/28/2020	06/19/2020	2020	52	Solar	Level 1
20-04135	04/28/2020	06/02/2020	2020	35	Solar	Level 1
20-04137	04/28/2020	09/23/2020	2020	148	Solar	Level 1
20-04138	04/28/2020	08/20/2020	2020	114	Solar	Level 1
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20-04158	04/28/2020	10/29/2020	2020	184	Solar	Level 1
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20-04163	04/28/2020	08/02/2020	2020	96	Solar	Level 1
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20-04169	04/29/2020	10/23/2020	2020	177	Solar	Level 1
20-04171	04/29/2020	07/20/2020	2020	82	Solar	Level 1
20-04173	04/29/2020	10/13/2020	2020	167	Solar	Level 1
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20-04198	04/30/2020	09/20/2020	2020	143	Solar	Level 1
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20-04214	04/30/2020	07/17/2020	2020	78	Solar	Level 1
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20-04217	04/30/2020	10/08/2020	2020	161	Solar	Level 1
20-04219	04/30/2020	06/24/2020	2020	55	Solar	Level 1
20-04220	04/30/2020	08/17/2020	2020	109	Solar	Level 1
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20-04222	04/30/2020	07/22/2020	2020	83	Solar	Level 1
20-04223	04/30/2020	08/19/2020	2020	111	Solar	Level 1
20-04224	04/30/2020	08/20/2020	2020	112	Solar	Level 1
20-04225	04/30/2020	07/20/2020	2020	81	Solar	Level 1
20-04226	04/30/2020	12/10/2020	2020	224	Solar	Level 1
20-04227	04/30/2020	07/28/2020	2020	89	Solar	Level 1
20-04228	04/30/2020	08/19/2020	2020	111	Solar	Level 1
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20-04239	05/01/2020	08/02/2020	2020	93	Solar	Level 1
20-04240	05/01/2020	08/21/2020	2020	112	Solar	Level 1
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20-04242	05/01/2020	07/27/2020	2020	87	Solar	Level 1
20-04243	05/01/2020	08/13/2020	2020	104	Solar	Level 1
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20-04249	05/01/2020	07/09/2020	2020	69	Solar	Level 1
20-04250	05/01/2020	08/21/2020	2020	112	Solar	Level 1
20-04251	05/01/2020	05/20/2020	2020	19	Solar	Level 1
20-04252	05/01/2020	08/13/2020	2020	104	Solar	Level 1
20-04253	05/01/2020	07/21/2020	2020	81	Solar	Level 1
20-04254	05/01/2020	06/14/2020	2020	44	Solar	Level 1
20-04256	05/01/2020	06/29/2020	2020	59	Solar	Level 1
20-04257	05/01/2020	08/19/2020	2020	110	Solar	Level 1
20-04258	05/01/2020	06/03/2020	2020	33	Solar	Level 1
20-04259	05/01/2020	05/11/2020	2020	10	Solar	Level 1
20-04261	05/01/2020	06/25/2020	2020	55	Solar	Level 1
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20-04263	05/01/2020	08/05/2020	2020	96	Solar	Level 1
20-04264	05/01/2020	09/14/2020	2020	136	Solar	Level 1
20-04266	05/01/2020	09/04/2020	2020	126	Solar	Level 1
20-04268	05/01/2020	07/19/2020	2020	79	Solar	Level 1
20-04270	05/01/2020	08/20/2020	2020	111	Solar	Level 1
20-04277	05/03/2020	07/23/2020	2020	81	Solar	Level 1
20-04278	05/03/2020	08/15/2020	2020	104	Solar	Level 1
20-04279	05/03/2020	07/23/2020	2020	81	Solar	Level 1
20-04280	05/04/2020	09/23/2020	2020	142	Solar	Level 1
20-04281	05/04/2020	06/22/2020	2020	49	Solar	Level 1
20-04282	05/04/2020	08/18/2020	2020	106	Solar	Level 1
20-04283	05/04/2020	07/17/2020	2020	74	Solar	Level 1
20-04284	05/04/2020	07/17/2020	2020	74	Solar	Level 1

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20-04297	05/04/2020	08/20/2020	2020	108	Solar	Level 1
20-04298	05/04/2020	08/21/2020	2020	109	Solar	Level 1
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20-04332	05/05/2020	08/21/2020	2020	108	Solar	Level 1
20-04333	05/05/2020	07/20/2020	2020	76	Solar	Level 1
20-04334	05/05/2020	08/05/2020	2020	92	Solar	Level 1
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20-04337	05/05/2020	06/22/2020	2020	48	Solar	Level 1
20-04338	05/05/2020	07/20/2020	2020	76	Solar	Level 1
20-04339	05/05/2020	07/21/2020	2020	77	Solar	Level 1
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20-04341	05/05/2020	06/15/2020	2020	41	Solar	Level 1

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20-04348	05/05/2020	09/13/2020	2020	131	Solar	Level 1
20-04349	05/05/2020	08/10/2020	2020	97	Solar	Level 1
20-04351	05/05/2020	08/08/2020	2020	95	Solar	Level 1
20-04353	05/05/2020	06/10/2020	2020	36	Solar	Level 1
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20-04356	05/05/2020	06/11/2020	2020	37	Solar	Level 1
20-04357	05/05/2020	08/20/2020	2020	107	Solar	Level 1
20-04358	05/05/2020	06/24/2020	2020	50	Solar	Level 1
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20-04361	05/05/2020	08/12/2020	2020	99	Solar	Level 1
20-04362	05/05/2020	07/21/2020	2020	77	Solar	Level 1
20-04363	05/05/2020	08/03/2020	2020	90	Solar	Level 1
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20-04366	05/05/2020	07/14/2020	2020	70	Solar	Level 1
20-04367	05/05/2020	06/26/2020	2020	52	Solar	Level 1
20-04368	05/05/2020	09/10/2020	2020	128	Solar	Level 1
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20-04370	05/05/2020	06/29/2020	2020	55	Solar	Level 1
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20-04423	05/07/2020	10/20/2020	2020	166	Solar	Level 1
20-04425	05/07/2020	06/19/2020	2020	43	Solar	Level 1
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20-04430	05/07/2020	08/19/2020	2020	104	Solar	Level 1
20-04431	05/07/2020	06/19/2020	2020	43	Solar	Level 1
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20-04434	05/07/2020	07/21/2020	2020	75	Solar	Level 1
20-04435	05/07/2020	08/20/2020	2020	105	Solar	Level 1
20-04437	05/07/2020	06/24/2020	2020	48	Solar	Level 1
20-04439	05/07/2020	10/20/2020	2020	166	Solar	Level 1
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20-04452	05/07/2020	07/21/2020	2020	75	Solar	Level 1
20-04454	05/07/2020	07/31/2020	2020	85	Solar	Level 1
20-04456	05/07/2020	06/23/2020	2020	47	Solar	Level 1
20-04459	05/07/2020	10/29/2020	2020	175	Solar	Level 1
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20-04462	05/07/2020	07/24/2020	2020	78	Solar	Level 1
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20-04484	05/08/2020	09/10/2020	2020	125	Solar	Level 1
20-04485	05/08/2020	07/19/2020	2020	72	Solar	Level 1
20-04487	05/08/2020	09/10/2020	2020	125	Solar	Level 1
20-04488	05/08/2020	08/10/2020	2020	94	Solar	Level 1
20-04489	05/08/2020	06/19/2020	2020	42	Solar	Level 1
20-04491	05/08/2020	08/12/2020	2020	96	Solar	Level 1
20-04493	05/08/2020	08/21/2020	2020	105	Solar	Level 1
20-04494	05/08/2020	10/05/2020	2020	150	Solar	Level 1
20-04495	05/08/2020	06/29/2020	2020	52	Solar	Level 1
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20-04505	05/08/2020	08/21/2020	2020	105	Solar	Level 1
20-04506	05/08/2020	07/16/2020	2020	69	Solar	Level 1
20-04507	05/08/2020	07/20/2020	2020	73	Solar	Level 1
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20-04509	05/08/2020	08/18/2020	2020	102	Solar	Level 1
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20-04511	05/08/2020	08/20/2020	2020	104	Solar	Level 1
20-04512	05/08/2020	08/10/2020	2020	94	Solar	Level 1
20-04513	05/11/2020	06/19/2020	2020	39	Solar	Level 1
20-04514	05/11/2020	10/01/2020	2020	143	Solar	Level 1
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20-04581	05/12/2020	10/07/2020	2020	148	Solar	Level 1
20-04582	05/12/2020	08/20/2020	2020	100	Solar	Level 1
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20-04607	05/13/2020	09/02/2020	2020	112	Solar	Level 1
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20-04617	05/13/2020	06/18/2020	2020	36	Solar	Level 1
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20-04659	05/13/2020	08/20/2020	2020	99	Solar	Level 1
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20-04663	05/13/2020	08/19/2020	2020	98	Solar	Level 1
20-04665	05/13/2020	08/06/2020	2020	85	Solar	Level 1
20-04666	05/13/2020	08/15/2020	2020	94	Solar	Level 1
20-04667	05/14/2020	08/18/2020	2020	96	Solar	Level 1
20-04673	05/14/2020	10/06/2020	2020	145	Solar	Level 1
20-04674	05/14/2020	07/15/2020	2020	62	Solar	Level 1
20-04675	05/14/2020	12/29/2020	2020	229	Solar	Level 1
20-04676	05/14/2020	10/20/2020	2020	159	Solar	Level 1
20-04677	05/14/2020	08/20/2020	2020	98	Solar	Level 1
20-04678	05/14/2020	09/30/2020	2020	139	Solar	Level 1
20-04680	05/14/2020	07/31/2020	2020	78	Solar	Level 1
20-04681	05/14/2020	10/06/2020	2020	145	Solar	Level 1
20-04682	05/14/2020	09/11/2020	2020	120	Solar	Level 1
20-04684	05/14/2020	07/21/2020	2020	68	Solar	Level 1
20-04685	05/14/2020	09/17/2020	2020	126	Solar	Level 1
20-04686	05/14/2020	09/08/2020	2020	117	Solar	Level 1
20-04687	05/14/2020	07/17/2020	2020	64	Solar	Level 1
20-04688	05/14/2020	08/10/2020	2020	88	Solar	Level 1
20-04689	05/14/2020	08/20/2020	2020	98	Solar	Level 1
20-04690	05/14/2020	06/26/2020	2020	43	Solar	Level 1
20-04692	05/14/2020	06/19/2020	2020	36	Solar	Level 1
20-04693	05/14/2020	07/22/2020	2020	69	Solar	Level 1
20-04694	05/14/2020	08/05/2020	2020	83	Solar	Level 1
20-04695	05/14/2020	08/21/2020	2020	99	Solar	Level 1
20-04697	05/14/2020	07/07/2020	2020	54	Solar	Level 1

20-04698	05/14/2020	08/19/2020	2020	97	Solar	Level 1
20-04699	05/14/2020	09/10/2020	2020	119	Solar	Level 1
20-04700	05/14/2020	10/22/2020	2020	161	Solar	Level 1
20-04702	05/14/2020	07/31/2020	2020	78	Solar	Level 1
20-04703	05/14/2020	09/24/2020	2020	133	Solar	Level 1
20-04704	05/14/2020	06/29/2020	2020	46	Solar	Level 1
20-04705	05/14/2020	08/19/2020	2020	97	Solar	Level 1
20-04706	05/14/2020	09/23/2020	2020	132	Solar	Level 1
20-04708	05/15/2020	08/19/2020	2020	96	Solar	Level 1
20-04709	05/15/2020	08/04/2020	2020	81	Solar	Level 1
20-04712	05/15/2020	11/20/2020	2020	189	Solar	Level 1
20-04713	05/15/2020	10/05/2020	2020	143	Solar	Level 1
20-04714	05/15/2020	08/13/2020	2020	90	Solar	Level 1
20-04715	05/15/2020	10/07/2020	2020	145	Solar	Level 1
20-04716	05/15/2020	07/15/2020	2020	61	Solar	Level 1
20-04717	05/15/2020	07/28/2020	2020	74	Solar	Level 1
20-04718	05/15/2020	07/14/2020	2020	60	Solar	Level 1
20-04720	05/15/2020	08/07/2020	2020	84	Solar	Level 1
20-04721	05/15/2020	09/16/2020	2020	124	Solar	Level 1
20-04722	05/15/2020	07/16/2020	2020	62	Solar	Level 1
20-04724	05/15/2020	08/25/2020	2020	102	Solar	Level 1
20-04725	05/15/2020	08/20/2020	2020	97	Solar	Level 1
20-04727	05/15/2020	09/14/2020	2020	122	Solar	Level 1
20-04728	05/15/2020	09/30/2020	2020	138	Solar	Level 1
20-04729	05/15/2020	10/28/2020	2020	166	Solar	Level 1
20-04730	05/15/2020	07/21/2020	2020	67	Solar	Level 1
20-04732	05/15/2020	10/05/2020	2020	143	Solar	Level 1
20-04733	05/15/2020	07/15/2020	2020	61	Solar	Level 1
20-04734	05/15/2020	07/17/2020	2020	63	Solar	Level 1
20-04736	05/15/2020	12/23/2020	2020	222	Solar	Level 1
20-04738	05/15/2020	12/14/2020	2020	213	Solar	Level 1
20-04740	05/15/2020	10/05/2020	2020	143	Solar	Level 1
20-04741	05/15/2020	10/23/2020	2020	161	Solar	Level 1
20-04742	05/17/2020	10/05/2020	2020	141	Solar	Level 1
20-04743	05/17/2020	10/05/2020	2020	141	Solar	Level 1
20-04744	05/17/2020	09/16/2020	2020	122	Solar	Level 1
20-04745	05/17/2020	08/26/2020	2020	101	Solar	Level 1
20-04746	05/17/2020	06/30/2020	2020	44	Solar	Level 1
20-04747	05/18/2020	08/28/2020	2020	102	Solar	Level 1
20-04748	05/18/2020	07/06/2020	2020	49	Solar	Level 1
20-04751	05/18/2020	08/19/2020	2020	93	Solar	Level 1

20-04752	05/18/2020	06/22/2020	2020	35	Solar	Level 1
20-04753	05/18/2020	07/20/2020	2020	63	Solar	Level 1
20-04755	05/18/2020	08/21/2020	2020	95	Solar	Level 1
20-04756	05/18/2020	08/18/2020	2020	92	Solar	Level 1
20-04757	05/18/2020	08/04/2020	2020	78	Solar	Level 1
20-04758	05/18/2020	08/19/2020	2020	93	Solar	Level 1
20-04759	05/18/2020	09/10/2020	2020	115	Solar	Level 1
20-04760	05/18/2020	09/09/2020	2020	114	Solar	Level 1
20-04761	05/18/2020	08/20/2020	2020	94	Solar	Level 1
20-04762	05/18/2020	06/26/2020	2020	39	Solar	Level 1
20-04763	05/18/2020	08/06/2020	2020	80	Solar	Level 1
20-04764	05/18/2020	12/10/2020	2020	206	Solar	Level 1
20-04765	05/18/2020	10/21/2020	2020	156	Solar	Level 1
20-04766	05/18/2020	06/19/2020	2020	32	Solar	Level 1
20-04768	05/18/2020	09/18/2020	2020	123	Solar	Level 1
20-04769	05/18/2020	11/19/2020	2020	185	Solar	Level 1
20-04771	05/18/2020	09/08/2020	2020	113	Solar	Level 1
20-04773	05/18/2020	11/05/2020	2020	171	Solar	Level 1
20-04775	05/18/2020	08/04/2020	2020	78	Solar	Level 1
20-04776	05/18/2020	08/14/2020	2020	88	Solar	Level 1
20-04778	05/18/2020	09/16/2020	2020	121	Solar	Level 1
20-04779	05/18/2020	09/14/2020	2020	119	Solar	Level 1
20-04781	05/18/2020	08/10/2020	2020	84	Solar	Level 1
20-04782	05/18/2020	07/17/2020	2020	60	Solar	Level 1
20-04783	05/18/2020	10/12/2020	2020	147	Solar	Level 1
20-04785	05/18/2020	08/20/2020	2020	94	Solar	Level 1
20-04786	05/18/2020	07/22/2020	2020	65	Solar	Level 1
20-04787	05/18/2020	07/20/2020	2020	63	Solar	Level 1
20-04788	05/18/2020	07/22/2020	2020	65	Solar	Level 1
20-04789	05/18/2020	08/10/2020	2020	84	Solar	Level 1
20-04790	05/18/2020	09/24/2020	2020	129	Solar	Level 1
20-04791	05/18/2020	08/20/2020	2020	94	Solar	Level 1
20-04792	05/18/2020	08/06/2020	2020	80	Solar	Level 1
20-04793	05/18/2020	08/20/2020	2020	94	Solar	Level 1
20-04794	05/18/2020	09/06/2020	2020	111	Solar	Level 1
20-04795	05/18/2020	08/07/2020	2020	81	Solar	Level 1
20-04796	05/18/2020	08/21/2020	2020	95	Solar	Level 1
20-04797	05/18/2020	08/20/2020	2020	94	Solar	Level 1
20-04799	05/18/2020	11/17/2020	2020	183	Solar	Level 1
20-04801	05/19/2020	08/19/2020	2020	92	Solar	Level 1
20-04802	05/19/2020	07/29/2020	2020	71	Solar	Level 1

20-04803	05/19/2020	10/08/2020	2020	142	Solar	Level 1
20-04805	05/19/2020	07/09/2020	2020	51	Solar	Level 1
20-04806	05/19/2020	08/20/2020	2020	93	Solar	Level 1
20-04807	05/19/2020	10/20/2020	2020	154	Solar	Level 1
20-04808	05/19/2020	08/11/2020	2020	84	Solar	Level 1
20-04809	05/19/2020	06/16/2020	2020	28	Solar	Level 1
20-04810	05/19/2020	09/14/2020	2020	118	Solar	Level 1
20-04811	05/19/2020	08/05/2020	2020	78	Solar	Level 1
20-04812	05/19/2020	08/27/2020	2020	100	Solar	Level 1
20-04813	05/19/2020	08/19/2020	2020	92	Solar	Level 1
20-04815	05/19/2020	09/18/2020	2020	122	Solar	Level 1
20-04818	05/19/2020	12/14/2020	2020	209	Solar	Level 1
20-04819	05/19/2020	07/22/2020	2020	64	Solar	Level 1
20-04821	05/19/2020	07/21/2020	2020	63	Solar	Level 1
20-04822	05/19/2020	08/19/2020	2020	92	Solar	Level 1
20-04823	05/19/2020	08/29/2020	2020	102	Solar	Level 1
20-04824	05/19/2020	09/24/2020	2020	128	Solar	Level 1
20-04825	05/19/2020	06/14/2020	2020	26	Solar	Level 1
20-04826	05/19/2020	06/30/2020	2020	42	Solar	Level 1
20-04828	05/19/2020	09/30/2020	2020	134	Solar	Level 2
20-04830	05/19/2020	08/21/2020	2020	94	Solar	Level 1
20-04831	05/19/2020	10/29/2020	2020	163	Solar	Level 1
20-04832	05/19/2020	08/26/2020	2020	99	Solar	Level 1
20-04835	05/19/2020	08/23/2020	2020	96	Solar	Level 1
20-04836	05/19/2020	08/04/2020	2020	77	Solar	Level 1
20-04837	05/19/2020	11/12/2020	2020	177	Solar	Level 1
20-04838	05/20/2020	08/13/2020	2020	85	Solar	Level 1
20-04839	05/20/2020	09/10/2020	2020	113	Solar	Level 1
20-04843	05/20/2020	08/13/2020	2020	85	Solar	Level 1
20-04844	05/20/2020	08/18/2020	2020	90	Solar	Level 1
20-04845	05/20/2020	06/15/2020	2020	26	Solar	Level 1
20-04846	05/20/2020	11/20/2020	2020	184	Solar	Level 1
20-04847	05/20/2020	07/07/2020	2020	48	Solar	Level 1
20-04849	05/20/2020	08/20/2020	2020	92	Solar	Level 1
20-04851	05/20/2020	07/31/2020	2020	72	Solar	Level 1
20-04852	05/20/2020	07/17/2020	2020	58	Solar	Level 1
20-04855	05/20/2020	07/09/2020	2020	50	Solar	Level 1
20-04856	05/20/2020	06/12/2020	2020	23	Solar	Level 1
20-04857	05/20/2020	09/17/2020	2020	120	Solar	Level 1
20-04859	05/20/2020	12/14/2020	2020	208	Solar	Level 1
20-04861	05/20/2020	12/17/2020	2020	211	Solar	Level 1

20-04862	05/20/2020	08/19/2020	2020	91	Solar	Level 1
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20-04865	05/20/2020	08/19/2020	2020	91	Solar	Level 1
20-04867	05/20/2020	11/06/2020	2020	170	Solar	Level 1
20-04869	05/20/2020	10/12/2020	2020	145	Solar	Level 1
20-04870	05/20/2020	08/20/2020	2020	92	Solar	Level 1
20-04872	05/20/2020	10/19/2020	2020	152	Solar	Level 1
20-04874	05/20/2020	08/20/2020	2020	92	Solar	Level 1
20-04876	05/20/2020	07/14/2020	2020	55	Solar	Level 1
20-04877	05/20/2020	09/10/2020	2020	113	Solar	Level 1
20-04879	05/20/2020	10/08/2020	2020	141	Solar	Level 1
20-04881	05/20/2020	08/21/2020	2020	93	Solar	Level 1
20-04883	05/20/2020	08/21/2020	2020	93	Solar	Level 1
20-04884	05/20/2020	08/23/2020	2020	95	Solar	Level 1
20-04885	05/20/2020	08/21/2020	2020	93	Solar	Level 1
20-04889	05/21/2020	08/20/2020	2020	91	Solar	Level 1
20-04890	05/21/2020	10/01/2020	2020	133	Solar	Level 1
20-04891	05/21/2020	07/23/2020	2020	63	Solar	Level 1
20-04892	05/21/2020	08/18/2020	2020	89	Solar	Level 1
20-04893	05/21/2020	08/08/2020	2020	79	Solar	Level 1
20-04894	05/21/2020	09/30/2020	2020	132	Solar	Level 1
20-04896	05/21/2020	09/23/2020	2020	125	Solar	Level 1
20-04897	05/21/2020	10/01/2020	2020	133	Solar	Level 1
20-04898	05/21/2020	12/10/2020	2020	203	Solar	Level 1
20-04899	05/21/2020	07/14/2020	2020	54	Solar	Level 1
20-04901	05/21/2020	08/20/2020	2020	91	Solar	Level 1
20-04903	05/21/2020	06/29/2020	2020	39	Solar	Level 1
20-04904	05/21/2020	09/30/2020	2020	132	Solar	Level 1
20-04905	05/21/2020	07/17/2020	2020	57	Solar	Level 1
20-04907	05/21/2020	08/10/2020	2020	81	Solar	Level 1
20-04910	05/21/2020	12/16/2020	2020	209	Solar	Level 1
20-04911	05/21/2020	08/06/2020	2020	77	Solar	Level 1
20-04913	05/21/2020	07/14/2020	2020	54	Solar	Level 1
20-04914	05/21/2020	09/06/2020	2020	108	Solar	Level 1
20-04915	05/21/2020	07/28/2020	2020	68	Solar	Level 1
20-04916	05/21/2020	08/20/2020	2020	91	Solar	Level 1
20-04917	05/21/2020	09/03/2020	2020	105	Solar	Level 1
20-04918	05/21/2020	08/11/2020	2020	82	Solar	Level 1
20-04920	05/21/2020	10/13/2020	2020	145	Solar	Level 1
20-04921	05/21/2020	08/06/2020	2020	77	Solar	Level 1
20-04922	05/22/2020	08/19/2020	2020	89	Solar	Level 1

20-04923	05/22/2020	10/20/2020	2020	151	Solar	Level 1
20-04924	05/22/2020	07/20/2020	2020	59	Solar	Level 1
20-04925	05/22/2020	12/16/2020	2020	208	Solar	Level 1
20-04926	05/22/2020	07/09/2020	2020	48	Solar	Level 1
20-04927	05/22/2020	10/06/2020	2020	137	Solar	Level 1
20-04928	05/22/2020	09/22/2020	2020	123	Solar	Level 1
20-04930	05/22/2020	10/07/2020	2020	138	Solar	Level 1
20-04932	05/22/2020	10/08/2020	2020	139	Solar	Level 1
20-04933	05/22/2020	07/09/2020	2020	48	Solar	Level 1
20-04934	05/22/2020	09/18/2020	2020	119	Solar	Level 1
20-04935	05/22/2020	12/10/2020	2020	202	Solar	Level 1
20-04936	05/22/2020	07/16/2020	2020	55	Solar	Level 1
20-04937	05/22/2020	12/10/2020	2020	202	Solar	Level 1
20-04940	05/22/2020	09/08/2020	2020	109	Solar	Level 1
20-04941	05/22/2020	08/13/2020	2020	83	Solar	Level 1
20-04943	05/22/2020	08/21/2020	2020	91	Solar	Level 1
20-04944	05/22/2020	09/18/2020	2020	119	Solar	Level 1
20-04945	05/22/2020	08/29/2020	2020	99	Solar	Level 1
20-04948	05/22/2020	07/22/2020	2020	61	Solar	Level 1
20-04949	05/22/2020	08/20/2020	2020	90	Solar	Level 1
20-04950	05/22/2020	08/20/2020	2020	90	Solar	Level 1
20-04951	05/22/2020	08/13/2020	2020	83	Solar	Level 1
20-04953	05/22/2020	08/03/2020	2020	73	Solar	Level 1
20-04955	05/22/2020	09/14/2020	2020	115	Solar	Level 1
20-04959	05/25/2020	09/10/2020	2020	108	Solar	Level 1
20-04962	05/25/2020	10/01/2020	2020	129	Solar	Level 1
20-04964	05/25/2020	10/19/2020	2020	147	Solar	Level 1
20-04966	05/25/2020	12/29/2020	2020	218	Solar	Level 1
20-04968	05/26/2020	08/12/2020	2020	78	Solar	Level 1
20-04969	05/26/2020	10/07/2020	2020	134	Solar	Level 2
20-04970	05/26/2020	12/01/2020	2020	189	Solar	Level 1
20-04971	05/26/2020	11/04/2020	2020	162	Solar	Level 1
20-04973	05/26/2020	09/25/2020	2020	122	Solar	Level 1
20-04976	05/26/2020	09/30/2020	2020	127	Solar	Level 2
20-04977	05/26/2020	07/15/2020	2020	50	Solar	Level 1
20-04978	05/26/2020	11/17/2020	2020	175	Solar	Level 1
20-04980	05/26/2020	06/29/2020	2020	34	Solar	Level 1
20-04981	05/26/2020	10/13/2020	2020	140	Solar	Level 1
20-04982	05/26/2020	11/04/2020	2020	162	Solar	Level 1
20-04983	05/26/2020	12/21/2020	2020	209	Solar	Level 1
20-04984	05/26/2020	11/16/2020	2020	174	Solar	Level 1

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20-04987	05/26/2020	10/19/2020	2020	146	Solar	Level 1
20-04991	05/26/2020	08/18/2020	2020	84	Solar	Level 1
20-04995	05/26/2020	11/03/2020	2020	161	Solar	Level 1
20-04997	05/26/2020	06/22/2020	2020	27	Solar	Level 1
20-04998	05/26/2020	10/13/2020	2020	140	Solar	Level 1
20-04999	05/26/2020	08/17/2020	2020	83	Solar	Level 1
20-05000	05/26/2020	09/18/2020	2020	115	Solar	Level 1
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20-05007	05/26/2020	06/30/2020	2020	35	Solar	Level 1
20-05008	05/26/2020	12/15/2020	2020	203	Solar	Level 1
20-05009	05/26/2020	06/30/2020	2020	35	Solar	Level 1
20-05010	05/26/2020	08/20/2020	2020	86	Solar	Level 1
20-05011	05/26/2020	07/20/2020	2020	55	Solar	Level 1
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20-05014	05/26/2020	08/12/2020	2020	78	Solar	Level 1
20-05016	05/26/2020	08/26/2020	2020	92	Solar	Level 1
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20-05018	05/26/2020	07/22/2020	2020	57	Solar	Level 1
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20-05025	05/27/2020	07/17/2020	2020	51	Solar	Level 1
20-05026	05/27/2020	12/09/2020	2020	196	Solar	Level 1
20-05028	05/27/2020	08/20/2020	2020	85	Solar	Level 1
20-05029	05/27/2020	07/27/2020	2020	61	Solar	Level 1
20-05030	05/27/2020	11/04/2020	2020	161	Solar	Level 1
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20-05038	05/27/2020	10/09/2020	2020	135	Solar	Level 1
20-05041	05/27/2020	11/03/2020	2020	160	Solar	Level 1
20-05042	05/27/2020	09/22/2020	2020	118	Solar	Level 1
20-05043	05/27/2020	08/17/2020	2020	82	Solar	Level 1
20-05044	05/27/2020	10/22/2020	2020	148	Solar	Level 1

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20-05052	05/27/2020	08/24/2020	2020	89	Solar	Level 1
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20-05054	05/27/2020	07/17/2020	2020	51	Solar	Level 1
20-05055	05/27/2020	07/16/2020	2020	50	Solar	Level 1
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20-05057	05/27/2020	11/19/2020	2020	176	Solar	Level 1
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20-05062	05/27/2020	10/05/2020	2020	131	Solar	Level 1
20-05063	05/27/2020	10/05/2020	2020	131	Solar	Level 1
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20-05067	05/27/2020	09/16/2020	2020	112	Solar	Level 1
20-05068	05/27/2020	08/20/2020	2020	85	Solar	Level 1
20-05069	05/27/2020	07/09/2020	2020	43	Solar	Level 1
20-05070	05/27/2020	12/14/2020	2020	201	Solar	Level 1
20-05071	05/27/2020	09/16/2020	2020	112	Solar	Level 1
20-05072	05/28/2020	09/18/2020	2020	113	Solar	Level 1
20-05075	05/28/2020	07/22/2020	2020	55	Solar	Level 1
20-05076	05/28/2020	11/06/2020	2020	162	Solar	Level 1
20-05077	05/28/2020	08/19/2020	2020	83	Solar	Level 1
20-05078	05/28/2020	07/20/2020	2020	53	Solar	Level 1
20-05079	05/28/2020	07/22/2020	2020	55	Solar	Level 1
20-05082	05/28/2020	07/24/2020	2020	57	Solar	Level 1
20-05083	05/28/2020	11/05/2020	2020	161	Solar	Level 1
20-05084	05/28/2020	07/09/2020	2020	42	Solar	Level 1
20-05085	05/28/2020	08/10/2020	2020	74	Solar	Level 1
20-05089	05/28/2020	07/20/2020	2020	53	Solar	Level 1
20-05091	05/28/2020	08/02/2020	2020	66	Solar	Level 1
20-05092	05/28/2020	08/25/2020	2020	89	Solar	Level 1
20-05093	05/28/2020	08/13/2020	2020	77	Solar	Level 1
20-05095	05/28/2020	09/20/2020	2020	115	Solar	Level 1
20-05097	05/28/2020	07/23/2020	2020	56	Solar	Level 1
20-05099	05/28/2020	09/15/2020	2020	110	Solar	Level 1
20-05100	05/28/2020	08/05/2020	2020	69	Solar	Level 1

20-05103	05/28/2020	11/12/2020	2020	168	Solar	Level 1
20-05105	05/28/2020	08/10/2020	2020	74	Solar	Level 1
20-05106	05/28/2020	10/12/2020	2020	137	Solar	Level 1
20-05107	05/28/2020	08/20/2020	2020	84	Solar	Level 1
20-05108	05/28/2020	11/04/2020	2020	160	Solar	Level 1
20-05109	05/28/2020	08/06/2020	2020	70	Solar	Level 1
20-05110	05/28/2020	08/19/2020	2020	83	Solar	Level 1
20-05111	05/28/2020	09/10/2020	2020	105	Solar	Level 1
20-05112	05/28/2020	09/30/2020	2020	125	Solar	Level 1
20-05113	05/28/2020	09/16/2020	2020	111	Solar	Level 1
20-05114	05/28/2020	08/20/2020	2020	84	Solar	Level 1
20-05115	05/28/2020	08/20/2020	2020	84	Solar	Level 1
20-05116	05/28/2020	10/29/2020	2020	154	Solar	Level 1
20-05118	05/28/2020	08/21/2020	2020	85	Solar	Level 1
20-05121	05/28/2020	08/17/2020	2020	81	Solar	Level 1
20-05122	05/28/2020	08/20/2020	2020	84	Solar	Level 1
20-05123	05/28/2020	08/07/2020	2020	71	Solar	Level 1
20-05124	05/29/2020	09/06/2020	2020	100	Solar	Level 1
20-05125	05/29/2020	12/18/2020	2020	203	Solar	Level 1
20-05126	05/29/2020	10/22/2020	2020	146	Solar	Level 1
20-05128	05/29/2020	12/17/2020	2020	202	Solar	Level 1
20-05129	05/29/2020	08/19/2020	2020	82	Solar	Level 1
20-05130	05/29/2020	08/21/2020	2020	84	Solar	Level 1
20-05131	05/29/2020	07/31/2020	2020	63	Solar	Level 1
20-05132	05/29/2020	10/20/2020	2020	144	Solar	Level 1
20-05133	05/29/2020	12/01/2020	2020	186	Solar	Level 1
20-05135	05/29/2020	11/20/2020	2020	175	Solar	Level 1
20-05137	05/29/2020	08/20/2020	2020	83	Solar	Level 1
20-05138	05/29/2020	10/30/2020	2020	154	Solar	Level 1
20-05139	05/29/2020	08/13/2020	2020	76	Solar	Level 1
20-05141	05/29/2020	09/11/2020	2020	105	Solar	Level 1
20-05142	05/29/2020	08/20/2020	2020	83	Solar	Level 1
20-05143	05/29/2020	07/23/2020	2020	55	Solar	Level 1
20-05144	05/29/2020	08/18/2020	2020	81	Solar	Level 1
20-05145	05/29/2020	09/16/2020	2020	110	Solar	Level 1
20-05146	05/29/2020	08/20/2020	2020	83	Solar	Level 1
20-05147	05/29/2020	08/20/2020	2020	83	Solar	Level 1
20-05148	05/29/2020	08/10/2020	2020	73	Solar	Level 1
20-05149	05/29/2020	08/12/2020	2020	75	Solar	Level 1
20-05150	05/29/2020	08/20/2020	2020	83	Solar	Level 1
20-05151	05/29/2020	09/28/2020	2020	122	Solar	Level 1

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20-05154	05/29/2020	08/18/2020	2020	81	Solar	Level 1
20-05155	05/29/2020	11/25/2020	2020	180	Solar	Level 1
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20-05157	05/29/2020	09/25/2020	2020	119	Solar	Level 1
20-05158	05/29/2020	11/03/2020	2020	158	Solar	Level 1
20-05159	05/29/2020	08/19/2020	2020	82	Solar	Level 1
20-05161	05/29/2020	08/18/2020	2020	81	Solar	Level 1
20-05162	05/29/2020	07/06/2020	2020	38	Solar	Level 1
20-05164	05/29/2020	08/23/2020	2020	86	Solar	Level 1
20-05165	05/29/2020	09/02/2020	2020	96	Solar	Level 1
20-05166	05/29/2020	09/17/2020	2020	111	Solar	Level 1
20-05169	05/29/2020	08/10/2020	2020	73	Solar	Level 1
20-05170	05/29/2020	09/17/2020	2020	111	Solar	Level 1
20-05172	05/31/2020	10/05/2020	2020	127	Solar	Level 1
20-05173	06/01/2020	09/16/2020	2020	107	Solar	Level 1
20-05174	06/01/2020	10/21/2020	2020	142	Solar	Level 1
20-05177	06/01/2020	07/21/2020	2020	50	Solar	Level 1
20-05178	06/01/2020	06/30/2020	2020	29	Solar	Level 1
20-05179	06/01/2020	11/02/2020	2020	154	Solar	Level 1
20-05180	06/01/2020	12/28/2020	2020	210	Solar	Level 1
20-05181	06/01/2020	09/23/2020	2020	114	Solar	Level 1
20-05182	06/01/2020	08/12/2020	2020	72	Solar	Level 1
20-05183	06/01/2020	11/04/2020	2020	156	Solar	Level 1
20-05185	06/01/2020	08/20/2020	2020	80	Solar	Level 1
20-05186	06/01/2020	08/21/2020	2020	81	Solar	Level 1
20-05187	06/01/2020	10/21/2020	2020	142	Solar	Level 1
20-05188	06/01/2020	08/05/2020	2020	65	Solar	Level 1
20-05190	06/01/2020	07/31/2020	2020	60	Solar	Level 1
20-05191	06/01/2020	08/20/2020	2020	80	Solar	Level 1
20-05192	06/01/2020	06/30/2020	2020	29	Solar	Level 1
20-05194	06/01/2020	08/20/2020	2020	80	Solar	Level 1
20-05195	06/01/2020	07/31/2020	2020	60	Solar	Level 1
20-05196	06/01/2020	08/06/2020	2020	66	Solar	Level 1
20-05199	06/01/2020	08/20/2020	2020	80	Solar	Level 1
20-05200	06/01/2020	10/21/2020	2020	142	Solar	Level 1
20-05201	06/01/2020	09/30/2020	2020	121	Solar	Level 1
20-05202	06/01/2020	08/24/2020	2020	84	Solar	Level 1
20-05203	06/01/2020	11/04/2020	2020	156	Solar	Level 1
20-05204	06/01/2020	10/19/2020	2020	140	Solar	Level 1

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20-05210	06/01/2020	09/02/2020	2020	93	Solar	Level 1
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20-05216	06/02/2020	07/13/2020	2020	41	Solar	Level 1
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20-05222	06/02/2020	11/19/2020	2020	170	Solar	Level 1
20-05224	06/02/2020	07/17/2020	2020	45	Solar	Level 1
20-05225	06/02/2020	10/26/2020	2020	146	Solar	Level 1
20-05228	06/02/2020	09/23/2020	2020	113	Solar	Level 1
20-05229	06/02/2020	09/11/2020	2020	101	Solar	Level 1
20-05230	06/02/2020	07/17/2020	2020	45	Solar	Level 1
20-05233	06/02/2020	08/28/2020	2020	87	Solar	Level 1
20-05234	06/02/2020	10/05/2020	2020	125	Solar	Level 1
20-05235	06/02/2020	09/22/2020	2020	112	Solar	Level 1
20-05238	06/02/2020	08/12/2020	2020	71	Solar	Level 1
20-05239	06/02/2020	10/29/2020	2020	149	Solar	Level 1
20-05240	06/02/2020	09/29/2020	2020	119	Solar	Level 1
20-05241	06/02/2020	10/23/2020	2020	143	Solar	Level 1
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20-05246	06/03/2020	11/04/2020	2020	154	Solar	Level 1
20-05247	06/03/2020	07/20/2020	2020	47	Solar	Level 1
20-05248	06/03/2020	10/15/2020	2020	134	Solar	Level 1
20-05249	06/03/2020	10/05/2020	2020	124	Solar	Level 1
20-05250	06/03/2020	10/15/2020	2020	134	Solar	Level 1
20-05252	06/03/2020	09/25/2020	2020	114	Solar	Level 1
20-05253	06/03/2020	09/17/2020	2020	106	Solar	Level 1
20-05254	06/03/2020	07/09/2020	2020	36	Solar	Level 1
20-05255	06/03/2020	08/20/2020	2020	78	Solar	Level 1
20-05257	06/03/2020	12/03/2020	2020	183	Solar	Level 1
20-05258	06/03/2020	08/21/2020	2020	79	Solar	Level 1
20-05259	06/03/2020	09/13/2020	2020	102	Solar	Level 1
20-05260	06/03/2020	11/15/2020	2020	165	Solar	Level 1
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20-05283	06/03/2020	10/23/2020	2020	142	Solar	Level 1
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20-05285	06/03/2020	09/24/2020	2020	113	Solar	Level 1
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20-05294	06/03/2020	08/19/2020	2020	77	Solar	Level 1
20-05295	06/04/2020	10/15/2020	2020	133	Solar	Level 1
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20-05310	06/04/2020	10/30/2020	2020	148	Solar	Level 1
20-05311	06/04/2020	08/18/2020	2020	75	Solar	Level 1
20-05313	06/04/2020	09/17/2020	2020	105	Solar	Level 1
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20-05348	06/04/2020	07/21/2020	2020	47	Solar	Level 1
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20-05374	06/05/2020	09/10/2020	2020	97	Solar	Level 1
20-05375	06/05/2020	11/16/2020	2020	164	Solar	Level 1
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20-05397	06/08/2020	11/18/2020	2020	163	Solar	Level 1
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20-05418	06/08/2020	07/17/2020	2020	39	Solar	Level 1
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20-05469	06/09/2020	08/24/2020	2020	76	Solar	Level 1
20-05470	06/09/2020	08/19/2020	2020	71	Solar	Level 1
20-05471	06/09/2020	11/12/2020	2020	156	Solar	Level 1
20-05472	06/09/2020	12/22/2020	2020	196	Solar	Level 1
20-05474	06/10/2020	09/18/2020	2020	100	Solar	Level 1
20-05476	06/10/2020	10/05/2020	2020	117	Solar	Level 1
20-05477	06/10/2020	11/20/2020	2020	163	Solar	Level 1
20-05478	06/10/2020	07/21/2020	2020	41	Solar	Level 1
20-05479	06/10/2020	08/29/2020	2020	80	Solar	Level 1
20-05484	06/10/2020	07/14/2020	2020	34	Solar	Level 1
20-05486	06/10/2020	09/04/2020	2020	86	Solar	Level 1
20-05490	06/10/2020	08/20/2020	2020	71	Solar	Level 1
20-05491	06/10/2020	08/07/2020	2020	58	Solar	Level 1
20-05493	06/10/2020	10/22/2020	2020	134	Solar	Level 1
20-05494	06/10/2020	08/10/2020	2020	61	Solar	Level 1
20-05496	06/10/2020	10/05/2020	2020	117	Solar	Level 1
20-05497	06/10/2020	12/12/2020	2020	185	Solar	Level 1
20-05498	06/10/2020	08/18/2020	2020	69	Solar	Level 1
20-05501	06/10/2020	09/21/2020	2020	103	Solar	Level 1

20-05502	06/10/2020	08/02/2020	2020	53	Solar	Level 1
20-05503	06/10/2020	10/12/2020	2020	124	Solar	Level 1
20-05504	06/10/2020	09/11/2020	2020	93	Solar	Level 1
20-05506	06/10/2020	08/20/2020	2020	71	Solar	Level 1
20-05507	06/10/2020	08/19/2020	2020	70	Solar	Level 1
20-05508	06/10/2020	08/13/2020	2020	64	Solar	Level 1
20-05509	06/10/2020	09/09/2020	2020	91	Solar	Level 1
20-05510	06/10/2020	08/21/2020	2020	72	Solar	Level 1
20-05512	06/10/2020	10/14/2020	2020	126	Solar	Level 1
20-05513	06/10/2020	10/22/2020	2020	134	Solar	Level 1
20-05514	06/10/2020	09/25/2020	2020	107	Solar	Level 1
20-05516	06/10/2020	09/17/2020	2020	99	Solar	Level 1
20-05517	06/10/2020	10/20/2020	2020	132	Solar	Level 1
20-05519	06/10/2020	10/06/2020	2020	118	Solar	Level 1
20-05520	06/10/2020	08/20/2020	2020	71	Solar	Level 1
20-05521	06/10/2020	06/25/2020	2020	15	Solar	Level 1
20-05523	06/10/2020	08/14/2020	2020	65	Solar	Level 1
20-05524	06/10/2020	08/13/2020	2020	64	Solar	Level 1
20-05527	06/11/2020	09/09/2020	2020	90	Solar	Level 1
20-05528	06/11/2020	08/08/2020	2020	58	Solar	Level 1
20-05529	06/11/2020	12/10/2020	2020	182	Solar	Level 1
20-05530	06/11/2020	08/12/2020	2020	62	Solar	Level 1
20-05531	06/11/2020	08/13/2020	2020	63	Solar	Level 1
20-05532	06/11/2020	09/10/2020	2020	91	Solar	Level 1
20-05533	06/11/2020	06/29/2020	2020	18	Solar	Level 1
20-05534	06/11/2020	12/03/2020	2020	175	Solar	Level 1
20-05537	06/11/2020	09/15/2020	2020	96	Solar	Level 1
20-05538	06/11/2020	09/17/2020	2020	98	Solar	Level 1
20-05539	06/11/2020	10/14/2020	2020	125	Solar	Level 1
20-05543	06/11/2020	08/23/2020	2020	73	Solar	Level 1
20-05544	06/11/2020	09/23/2020	2020	104	Solar	Level 1
20-05548	06/11/2020	09/06/2020	2020	87	Storage	Level 1
20-05549	06/11/2020	09/10/2020	2020	91	Solar	Level 1
20-05550	06/11/2020	08/18/2020	2020	68	Solar	Level 1
20-05551	06/11/2020	11/12/2020	2020	154	Solar	Level 1
20-05552	06/11/2020	08/20/2020	2020	70	Solar	Level 1
20-05553	06/11/2020	08/19/2020	2020	69	Solar	Level 1
20-05554	06/11/2020	09/10/2020	2020	91	Solar	Level 1
20-05557	06/11/2020	11/10/2020	2020	152	Solar	Level 1
20-05558	06/11/2020	08/07/2020	2020	57	Solar	Level 1
20-05559	06/11/2020	10/05/2020	2020	116	Solar	Level 1

20-05560	06/11/2020	07/19/2020	2020	38	Solar	Level 1
20-05561	06/11/2020	09/01/2020	2020	82	Solar	Level 1
20-05562	06/11/2020	11/02/2020	2020	144	Solar	Level 1
20-05563	06/11/2020	09/24/2020	2020	105	Solar	Level 1
20-05564	06/11/2020	09/06/2020	2020	87	Solar	Level 1
20-05567	06/11/2020	08/21/2020	2020	71	Solar	Level 1
20-05569	06/11/2020	10/13/2020	2020	124	Solar	Level 1
20-05570	06/11/2020	09/14/2020	2020	95	Solar	Level 1
20-05572	06/11/2020	08/20/2020	2020	70	Solar	Level 1
20-05574	06/12/2020	08/12/2020	2020	61	Solar	Level 1
20-05575	06/12/2020	06/25/2020	2020	13	Solar	Level 1
20-05576	06/12/2020	08/18/2020	2020	67	Solar	Level 1
20-05579	06/12/2020	11/05/2020	2020	146	Solar	Level 1
20-05580	06/12/2020	08/13/2020	2020	62	Solar	Level 1
20-05581	06/12/2020	08/23/2020	2020	72	Solar	Level 1
20-05582	06/12/2020	10/20/2020	2020	130	Solar	Level 1
20-05584	06/12/2020	08/20/2020	2020	69	Solar	Level 1
20-05585	06/12/2020	08/19/2020	2020	68	Solar	Level 1
20-05586	06/12/2020	11/30/2020	2020	171	Solar	Level 1
20-05587	06/12/2020	08/20/2020	2020	69	Solar	Level 1
20-05589	06/12/2020	12/10/2020	2020	181	Solar	Level 1
20-05591	06/12/2020	09/18/2020	2020	98	Solar	Level 1
20-05592	06/12/2020	08/21/2020	2020	70	Solar	Level 1
20-05593	06/12/2020	08/19/2020	2020	68	Solar	Level 1
20-05598	06/12/2020	11/06/2020	2020	147	Solar	Level 1
20-05600	06/12/2020	08/11/2020	2020	60	Solar	Level 1
20-05601	06/12/2020	10/19/2020	2020	129	Solar	Level 1
20-05602	06/12/2020	08/10/2020	2020	59	Solar	Level 1
20-05603	06/12/2020	08/13/2020	2020	62	Solar	Level 1
20-05608	06/13/2020	09/10/2020	2020	89	Solar	Level 1
20-05609	06/15/2020	08/02/2020	2020	48	Solar	Level 1
20-05611	06/15/2020	09/06/2020	2020	83	Solar	Level 1
20-05612	06/15/2020	09/04/2020	2020	81	Solar	Level 1
20-05614	06/15/2020	07/22/2020	2020	37	Solar	Level 1
20-05615	06/15/2020	08/27/2020	2020	73	Solar	Level 1
20-05616	06/15/2020	07/24/2020	2020	39	Solar	Level 1
20-05618	06/15/2020	08/21/2020	2020	67	Solar	Level 1
20-05621	06/15/2020	10/05/2020	2020	112	Solar	Level 1
20-05622	06/15/2020	11/15/2020	2020	153	Solar	Level 1
20-05623	06/15/2020	09/21/2020	2020	98	Solar	Level 1
20-05624	06/15/2020	08/20/2020	2020	66	Solar	Level 1

20-05626	06/16/2020	09/10/2020	2020	86	Solar	Level 1
20-05627	06/16/2020	08/04/2020	2020	49	Solar	Level 1
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20-05635	06/16/2020	10/14/2020	2020	120	Solar	Level 1
20-05636	06/16/2020	07/24/2020	2020	38	Solar	Level 1
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20-05638	06/16/2020	10/23/2020	2020	129	Solar	Level 1
20-05639	06/16/2020	08/25/2020	2020	70	Solar	Level 1
20-05641	06/16/2020	08/12/2020	2020	57	Solar	Level 1
20-05643	06/16/2020	10/07/2020	2020	113	Solar	Level 1
20-05645	06/16/2020	07/17/2020	2020	31	Solar	Level 1
20-05646	06/16/2020	08/18/2020	2020	63	Solar	Level 1
20-05648	06/16/2020	11/15/2020	2020	152	Solar	Level 1
20-05649	06/16/2020	10/01/2020	2020	107	Solar	Level 1
20-05650	06/16/2020	08/20/2020	2020	65	Solar	Level 1
20-05652	06/16/2020	06/30/2020	2020	14	Solar	Level 1
20-05653	06/16/2020	09/01/2020	2020	77	Solar	Level 1
20-05654	06/16/2020	08/19/2020	2020	64	Solar	Level 1
20-05655	06/16/2020	08/06/2020	2020	51	Solar	Level 1
20-05656	06/16/2020	09/16/2020	2020	92	Solar	Level 1
20-05658	06/16/2020	07/15/2020	2020	29	Solar	Level 1
20-05659	06/16/2020	10/12/2020	2020	118	Solar	Level 1
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20-05661	06/16/2020	09/10/2020	2020	86	Solar	Level 1
20-05662	06/16/2020	08/20/2020	2020	65	Solar	Level 1
20-05663	06/16/2020	11/13/2020	2020	150	Solar	Level 1
20-05664	06/16/2020	07/24/2020	2020	38	Solar	Level 1
20-05665	06/16/2020	09/03/2020	2020	79	Solar	Level 1
20-05666	06/16/2020	09/17/2020	2020	93	Solar	Level 1
20-05668	06/16/2020	09/13/2020	2020	89	Solar	Level 1
20-05669	06/16/2020	08/20/2020	2020	65	Solar	Level 1
20-05671	06/16/2020	08/31/2020	2020	76	Solar	Level 1
20-05672	06/16/2020	11/04/2020	2020	141	Solar	Level 1
20-05674	06/16/2020	08/18/2020	2020	63	Solar	Level 1
20-05675	06/16/2020	08/24/2020	2020	69	Solar	Level 1
20-05676	06/16/2020	09/10/2020	2020	86	Solar	Level 1
20-05677	06/16/2020	10/22/2020	2020	128	Solar	Level 1

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20-05682	06/16/2020	08/19/2020	2020	64	Solar	Level 1
20-05683	06/16/2020	08/11/2020	2020	56	Solar	Level 1
20-05685	06/16/2020	08/19/2020	2020	64	Solar	Level 1
20-05686	06/16/2020	09/22/2020	2020	98	Solar	Level 1
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20-05688	06/16/2020	09/18/2020	2020	94	Solar	Level 1
20-05689	06/16/2020	07/16/2020	2020	30	Solar	Level 1
20-05691	06/16/2020	09/30/2020	2020	106	Solar	Level 1
20-05692	06/16/2020	11/13/2020	2020	150	Solar	Level 1
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20-05695	06/16/2020	08/20/2020	2020	65	Solar	Level 1
20-05697	06/16/2020	09/22/2020	2020	98	Solar	Level 1
20-05699	06/16/2020	10/21/2020	2020	127	Solar	Level 1
20-05702	06/16/2020	08/17/2020	2020	62	Solar	Level 1
20-05704	06/16/2020	09/23/2020	2020	99	Solar	Level 1
20-05707	06/16/2020	08/21/2020	2020	66	Solar	Level 1
20-05708	06/16/2020	10/07/2020	2020	113	Solar	Level 1
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20-05715	06/17/2020	08/21/2020	2020	65	Solar	Level 1
20-05717	06/17/2020	12/28/2020	2020	194	Solar	Level 1
20-05718	06/17/2020	09/29/2020	2020	104	Solar	Level 1
20-05719	06/17/2020	08/05/2020	2020	49	Solar	Level 1
20-05720	06/17/2020	11/09/2020	2020	145	Solar	Level 1
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20-05723	06/17/2020	11/24/2020	2020	160	Solar	Level 1
20-05724	06/17/2020	09/16/2020	2020	91	Solar	Level 1
20-05725	06/17/2020	08/06/2020	2020	50	Solar	Level 1
20-05730	06/17/2020	12/10/2020	2020	176	Solar	Level 1
20-05732	06/17/2020	12/18/2020	2020	184	Solar	Level 1
20-05733	06/17/2020	08/20/2020	2020	64	Solar	Level 1
20-05735	06/17/2020	09/23/2020	2020	98	Solar	Level 1
20-05736	06/17/2020	09/09/2020	2020	84	Solar	Level 1
20-05737	06/17/2020	09/16/2020	2020	91	Solar	Level 1
20-05738	06/17/2020	10/21/2020	2020	126	Solar	Level 1
20-05739	06/17/2020	09/18/2020	2020	93	Solar	Level 1

20-05741	06/17/2020	12/20/2020	2020	186	Solar	Level 1
20-05742	06/17/2020	11/16/2020	2020	152	Solar	Level 1
20-05744	06/17/2020	08/20/2020	2020	64	Solar	Level 1
20-05745	06/17/2020	08/07/2020	2020	51	Solar	Level 1
20-05746	06/17/2020	08/20/2020	2020	64	Solar	Level 1
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20-05754	06/18/2020	09/15/2020	2020	89	Solar	Level 1
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20-05756	06/18/2020	09/18/2020	2020	92	Solar	Level 1
20-05757	06/18/2020	09/08/2020	2020	82	Solar	Level 1
20-05758	06/18/2020	08/20/2020	2020	63	Solar	Level 1
20-05759	06/18/2020	07/24/2020	2020	36	Solar	Level 1
20-05760	06/18/2020	07/22/2020	2020	34	Solar	Level 1
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20-05769	06/18/2020	09/23/2020	2020	97	Solar	Level 1
20-05770	06/18/2020	08/06/2020	2020	49	Solar	Level 1
20-05771	06/18/2020	08/18/2020	2020	61	Solar	Level 1
20-05774	06/18/2020	12/10/2020	2020	175	Solar	Level 1
20-05776	06/18/2020	08/06/2020	2020	49	Solar	Level 1
20-05779	06/18/2020	08/20/2020	2020	63	Solar	Level 1
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20-05787	06/18/2020	08/20/2020	2020	63	Solar	Level 1
20-05788	06/18/2020	10/15/2020	2020	119	Solar	Level 1
20-05791	06/18/2020	08/20/2020	2020	63	Solar	Level 1
20-05792	06/18/2020	10/12/2020	2020	116	Solar	Level 1
20-05793	06/18/2020	10/22/2020	2020	126	Solar	Level 1
20-05794	06/18/2020	08/12/2020	2020	55	Solar	Level 1
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20-05810	06/19/2020	09/24/2020	2020	97	Solar	Level 1

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20-05836	06/20/2020	09/03/2020	2020	75	Solar	Level 1
20-05838	06/20/2020	11/04/2020	2020	137	Solar	Level 1
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20-05842	06/20/2020	10/05/2020	2020	107	Solar	Level 1
20-05844	06/20/2020	10/22/2020	2020	124	Solar	Level 1
20-05845	06/20/2020	11/19/2020	2020	152	Solar	Level 1
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20-05870	06/22/2020	08/06/2020	2020	45	Solar	Level 1
20-05871	06/22/2020	10/08/2020	2020	108	Solar	Level 1
20-05872	06/22/2020	12/10/2020	2020	171	Solar	Level 1
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20-05874	06/22/2020	11/20/2020	2020	151	Solar	Level 1
20-05876	06/22/2020	09/15/2020	2020	85	Solar	Level 1
20-05877	06/22/2020	09/26/2020	2020	96	Solar	Level 1
20-05881	06/22/2020	09/18/2020	2020	88	Solar	Level 1
20-05882	06/22/2020	09/24/2020	2020	94	Solar	Level 1
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20-05897	06/22/2020	07/09/2020	2020	17	Solar	Level 1
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20-05903	06/22/2020	11/12/2020	2020	143	Solar	Level 1
20-05904	06/22/2020	08/28/2020	2020	67	Solar	Level 1
20-05909	06/23/2020	08/11/2020	2020	49	Solar	Level 1
20-05913	06/23/2020	08/26/2020	2020	64	Solar	Level 1
20-05914	06/23/2020	11/30/2020	2020	160	Solar	Level 1
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20-05917	06/23/2020	09/18/2020	2020	87	Solar	Level 1
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20-05926	06/23/2020	09/20/2020	2020	89	Solar	Level 1
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20-05934	06/23/2020	09/08/2020	2020	77	Solar	Level 1
20-05935	06/23/2020	08/19/2020	2020	57	Solar	Level 1
20-05936	06/23/2020	12/03/2020	2020	163	Solar	Level 1
20-05937	06/23/2020	10/19/2020	2020	118	Solar	Level 1
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20-05944	06/23/2020	07/09/2020	2020	16	Solar	Level 1
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20-05946	06/23/2020	09/18/2020	2020	87	Solar	Level 1
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20-05954	06/23/2020	11/24/2020	2020	154	Solar	Level 1

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20-05966	06/23/2020	08/25/2020	2020	63	Solar	Level 1
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20-06401	07/07/2020	08/19/2020	2020	43	Solar	Level 1
20-06402	07/07/2020	12/17/2020	2020	163	Solar	Level 1
20-06403	07/07/2020	09/22/2020	2020	77	Solar	Level 1
20-06404	07/07/2020	10/08/2020	2020	93	Solar	Level 1
20-06405	07/07/2020	09/18/2020	2020	73	Solar	Level 1
20-06408	07/08/2020	09/23/2020	2020	77	Solar	Level 1
20-06409	07/08/2020	08/21/2020	2020	44	Solar	Level 1
20-06412	07/08/2020	10/05/2020	2020	89	Solar	Level 1
20-06414	07/08/2020	09/16/2020	2020	70	Solar	Level 1
20-06415	07/08/2020	12/10/2020	2020	155	Solar	Level 1
20-06416	07/08/2020	11/04/2020	2020	119	Solar	Level 1

20-06419	07/08/2020	10/29/2020	2020	113	Solar	Level 1
20-06420	07/08/2020	10/30/2020	2020	114	Solar	Level 1
20-06421	07/08/2020	12/14/2020	2020	159	Solar	Level 1
20-06422	07/08/2020	09/23/2020	2020	77	Solar	Level 1
20-06423	07/08/2020	09/09/2020	2020	63	Solar	Level 1
20-06424	07/08/2020	12/17/2020	2020	162	Solar	Level 1
20-06425	07/08/2020	10/20/2020	2020	104	Solar	Level 1
20-06426	07/08/2020	08/20/2020	2020	43	Solar	Level 1
20-06427	07/08/2020	09/19/2020	2020	73	Solar	Level 1
20-06429	07/08/2020	08/05/2020	2020	28	Solar	Level 1
20-06430	07/08/2020	08/20/2020	2020	43	Solar	Level 1
20-06431	07/08/2020	12/29/2020	2020	174	Solar	Level 1
20-06432	07/08/2020	09/05/2020	2020	59	Solar	Level 1
20-06434	07/08/2020	11/16/2020	2020	131	Solar	Level 1
20-06435	07/08/2020	11/17/2020	2020	132	Solar	Level 1
20-06436	07/08/2020	11/04/2020	2020	119	Solar	Level 1
20-06437	07/08/2020	08/21/2020	2020	44	Solar	Level 1
20-06438	07/08/2020	08/20/2020	2020	43	Solar	Level 1
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20-06440	07/08/2020	10/01/2020	2020	85	Solar	Level 1
20-06441	07/08/2020	08/21/2020	2020	44	Solar	Level 1
20-06442	07/08/2020	11/17/2020	2020	132	Solar	Level 1
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20-06447	07/08/2020	12/08/2020	2020	153	Solar	Level 1
20-06448	07/08/2020	10/21/2020	2020	105	Solar	Level 1
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20-06462	07/09/2020	11/25/2020	2020	139	Solar	Level 1
20-06463	07/09/2020	08/20/2020	2020	42	Solar	Level 1
20-06467	07/09/2020	09/16/2020	2020	69	Solar	Level 1
20-06468	07/09/2020	10/19/2020	2020	102	Solar	Level 1
20-06476	07/09/2020	10/12/2020	2020	95	Solar	Level 1
20-06478	07/09/2020	09/13/2020	2020	66	Solar	Level 1
20-06479	07/09/2020	11/23/2020	2020	137	Solar	Level 1

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20-06481	07/09/2020	09/11/2020	2020	64	Solar	Level 1
20-06482	07/09/2020	10/19/2020	2020	102	Solar	Level 1
20-06483	07/09/2020	09/03/2020	2020	56	Solar	Level 1
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20-06490	07/09/2020	09/25/2020	2020	78	Solar	Level 1
20-06491	07/09/2020	11/23/2020	2020	137	Solar	Level 1
20-06492	07/09/2020	08/20/2020	2020	42	Solar	Level 1
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20-06498	07/09/2020	09/22/2020	2020	75	Solar	Level 1
20-06499	07/09/2020	10/21/2020	2020	104	Solar	Level 1
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20-06506	07/09/2020	09/10/2020	2020	63	Solar	Level 1
20-06507	07/09/2020	10/13/2020	2020	96	Solar	Level 1
20-06508	07/09/2020	12/10/2020	2020	154	Solar	Level 1
20-06511	07/09/2020	10/20/2020	2020	103	Solar	Level 1
20-06512	07/09/2020	12/30/2020	2020	174	Solar	Level 2
20-06513	07/09/2020	09/17/2020	2020	70	Solar	Level 1
20-06514	07/09/2020	11/23/2020	2020	137	Solar	Level 1
20-06515	07/09/2020	11/13/2020	2020	127	Solar	Level 1
20-06516	07/09/2020	09/09/2020	2020	62	Solar	Level 1
20-06518	07/09/2020	10/15/2020	2020	98	Solar	Level 1
20-06519	07/10/2020	10/07/2020	2020	89	Solar	Level 1
20-06522	07/10/2020	08/13/2020	2020	34	Solar	Level 1
20-06523	07/10/2020	10/16/2020	2020	98	Solar	Level 1
20-06524	07/10/2020	08/18/2020	2020	39	Solar	Level 1
20-06526	07/10/2020	10/06/2020	2020	88	Solar	Level 1
20-06529	07/10/2020	09/24/2020	2020	76	Solar	Level 1
20-06530	07/10/2020	12/01/2020	2020	144	Solar	Level 1
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20-06536	07/10/2020	09/16/2020	2020	68	Solar	Level 1

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20-06551	07/13/2020	11/23/2020	2020	133	Solar	Level 1
20-06552	07/13/2020	11/11/2020	2020	121	Solar	Level 1
20-06553	07/13/2020	08/11/2020	2020	29	Solar	Level 1
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20-06576	07/13/2020	12/15/2020	2020	155	Solar	Level 1
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20-06579	07/13/2020	09/09/2020	2020	58	Solar	Level 1
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20-06583	07/13/2020	09/17/2020	2020	66	Solar	Level 1
20-06584	07/13/2020	08/20/2020	2020	38	Solar	Level 1
20-06585	07/14/2020	08/31/2020	2020	48	Solar	Level 1
20-06586	07/14/2020	12/21/2020	2020	160	Solar	Level 1
20-06587	07/14/2020	10/20/2020	2020	98	Solar	Level 1
20-06589	07/14/2020	08/19/2020	2020	36	Solar	Level 1

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20-06839	07/21/2020	08/29/2020	2020	39	Solar	Level 1
20-06841	07/22/2020	10/01/2020	2020	71	Solar	Level 1
20-06843	07/22/2020	12/21/2020	2020	152	Solar	Level 1
20-06845	07/22/2020	11/16/2020	2020	117	Solar	Level 1
20-06847	07/22/2020	09/22/2020	2020	62	Solar	Level 1
20-06851	07/22/2020	10/23/2020	2020	93	Solar	Level 1
20-06852	07/22/2020	11/12/2020	2020	113	Solar	Level 1
20-06853	07/22/2020	08/28/2020	2020	37	Solar	Level 1

20-06854	07/22/2020	10/12/2020	2020	82	Solar	Level 1
20-06857	07/22/2020	10/05/2020	2020	75	Solar	Level 1
20-06859	07/22/2020	10/16/2020	2020	86	Solar	Level 1
20-06860	07/22/2020	12/10/2020	2020	141	Solar	Level 1
20-06862	07/22/2020	11/12/2020	2020	113	Solar	Level 1
20-06865	07/22/2020	10/07/2020	2020	77	Solar	Level 1
20-06866	07/22/2020	11/06/2020	2020	107	Solar	Level 1
20-06867	07/22/2020	09/08/2020	2020	48	Solar	Level 1
20-06869	07/22/2020	12/17/2020	2020	148	Solar	Level 1
20-06871	07/22/2020	11/18/2020	2020	119	Solar	Level 1
20-06873	07/22/2020	10/05/2020	2020	75	Solar	Level 1
20-06874	07/22/2020	09/18/2020	2020	58	Solar	Level 1
20-06875	07/22/2020	09/23/2020	2020	63	Solar	Level 1
20-06878	07/22/2020	09/16/2020	2020	56	Solar	Level 1
20-06879	07/22/2020	09/18/2020	2020	58	Solar	Level 1
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20-06882	07/22/2020	10/15/2020	2020	85	Solar	Level 1
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20-06886	07/22/2020	10/20/2020	2020	90	Solar	Level 1
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20-06893	07/23/2020	10/05/2020	2020	74	Solar	Level 1
20-06894	07/23/2020	10/30/2020	2020	99	Solar	Level 1
20-06896	07/23/2020	10/12/2020	2020	81	Solar	Level 1
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20-06918	07/23/2020	10/05/2020	2020	74	Solar	Level 1
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20-06946	07/23/2020	10/07/2020	2020	76	Solar	Level 1
20-06948	07/23/2020	09/23/2020	2020	62	Solar	Level 1
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20-06955	07/23/2020	10/16/2020	2020	85	Solar	Level 1
20-06958	07/24/2020	10/22/2020	2020	90	Solar	Level 1
20-06959	07/24/2020	09/18/2020	2020	56	Solar	Level 1
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20-06970	07/24/2020	08/21/2020	2020	28	Solar	Level 1
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20-06972	07/24/2020	09/22/2020	2020	60	Solar	Level 1
20-06973	07/24/2020	08/21/2020	2020	28	Solar	Level 1
20-06975	07/24/2020	12/04/2020	2020	133	Solar	Level 1
20-06976	07/24/2020	10/14/2020	2020	82	Solar	Level 1
20-06977	07/24/2020	12/10/2020	2020	139	Solar	Level 1
20-06978	07/24/2020	10/12/2020	2020	80	Solar	Level 1
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20-07042	07/27/2020	10/12/2020	2020	77	Solar	Level 1
20-07044	07/27/2020	12/03/2020	2020	129	Solar	Level 1
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20-07113	07/29/2020	10/12/2020	2020	75	Solar	Level 1
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20-07307	08/03/2020	10/21/2020	2020	79	Solar	Level 1
20-07308	08/03/2020	10/12/2020	2020	70	Solar	Level 1
20-07309	08/04/2020	12/22/2020	2020	140	Solar	Level 1
20-07312	08/04/2020	10/22/2020	2020	79	Solar	Level 1
20-07314	08/04/2020	11/19/2020	2020	107	Solar	Level 1

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20-07319	08/04/2020	10/20/2020	2020	77	Solar	Level 1
20-07320	08/04/2020	10/06/2020	2020	63	Solar	Level 1
20-07321	08/04/2020	10/19/2020	2020	76	Solar	Level 1
20-07323	08/04/2020	11/23/2020	2020	111	Solar	Level 1
20-07325	08/04/2020	10/13/2020	2020	70	Solar	Level 1
20-07326	08/04/2020	11/03/2020	2020	91	Solar	Level 1
20-07327	08/04/2020	10/07/2020	2020	64	Solar	Level 1
20-07329	08/04/2020	09/28/2020	2020	55	Solar	Level 1
20-07331	08/04/2020	11/12/2020	2020	100	Solar	Level 1
20-07332	08/04/2020	10/07/2020	2020	64	Solar	Level 1
20-07336	08/04/2020	12/02/2020	2020	120	Solar	Level 1
20-07337	08/04/2020	09/17/2020	2020	44	Solar	Level 1
20-07343	08/04/2020	10/16/2020	2020	73	Solar	Level 1
20-07346	08/04/2020	11/23/2020	2020	111	Solar	Level 1
20-07349	08/04/2020	09/16/2020	2020	43	Solar	Level 1
20-07350	08/04/2020	11/16/2020	2020	104	Solar	Level 1
20-07352	08/04/2020	12/04/2020	2020	122	Solar	Level 1
20-07354	08/04/2020	11/04/2020	2020	92	Solar	Level 1
20-07355	08/04/2020	12/10/2020	2020	128	Solar	Level 1
20-07356	08/04/2020	09/16/2020	2020	43	Solar	Level 1
20-07358	08/04/2020	10/22/2020	2020	79	Solar	Level 1
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20-07365	08/05/2020	11/11/2020	2020	98	Solar	Level 1
20-07366	08/05/2020	11/25/2020	2020	112	Solar	Level 1
20-07367	08/05/2020	11/19/2020	2020	106	Solar	Level 1
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20-07378	08/05/2020	11/19/2020	2020	106	Solar	Level 1
20-07380	08/05/2020	10/05/2020	2020	61	Solar	Level 1
20-07381	08/05/2020	09/16/2020	2020	42	Solar	Level 1
20-07383	08/05/2020	10/21/2020	2020	77	Solar	Level 1
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20-07386	08/05/2020	11/19/2020	2020	106	Solar	Level 1
20-07388	08/05/2020	12/21/2020	2020	138	Solar	Level 1

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20-07397	08/05/2020	10/06/2020	2020	62	Solar	Level 1
20-07400	08/05/2020	12/09/2020	2020	126	Solar	Level 1
20-07401	08/05/2020	09/17/2020	2020	43	Solar	Level 1
20-07402	08/05/2020	12/10/2020	2020	127	Solar	Level 1
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20-07404	08/05/2020	10/22/2020	2020	78	Solar	Level 1
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20-07407	08/05/2020	11/04/2020	2020	91	Solar	Level 1
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20-07427	08/06/2020	12/10/2020	2020	126	Solar	Level 1
20-07429	08/06/2020	10/14/2020	2020	69	Solar	Level 1
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20-07439	08/06/2020	10/23/2020	2020	78	Solar	Level 1
20-07440	08/06/2020	09/24/2020	2020	49	Solar	Level 1
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20-07443	08/06/2020	10/07/2020	2020	62	Solar	Level 1
20-07444	08/06/2020	12/29/2020	2020	145	Solar	Level 1
20-07445	08/06/2020	10/21/2020	2020	76	Solar	Level 1
20-07447	08/06/2020	10/13/2020	2020	68	Solar	Level 1
20-07448	08/06/2020	11/24/2020	2020	110	Solar	Level 1
20-07452	08/06/2020	10/08/2020	2020	63	Solar	Level 1
20-07453	08/06/2020	09/18/2020	2020	43	Solar	Level 1
20-07454	08/06/2020	11/19/2020	2020	105	Solar	Level 1

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20-07469	08/07/2020	10/12/2020	2020	66	Solar	Level 1
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20-07493	08/07/2020	12/10/2020	2020	125	Solar	Level 1
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20-07541	08/10/2020	10/07/2020	2020	58	Solar	Level 1
20-07546	08/10/2020	12/10/2020	2020	122	Solar	Level 1
20-07547	08/10/2020	12/29/2020	2020	141	Solar	Level 1
20-07548	08/10/2020	10/20/2020	2020	71	Solar	Level 1
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20-07552	09/14/2020	10/19/2020	2020	35	Solar	Level 1

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20-07579	08/10/2020	12/04/2020	2020	116	Solar	Level 1
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20-07585	08/10/2020	09/30/2020	2020	51	Solar	Level 1
20-07587	08/10/2020	11/19/2020	2020	101	Solar	Level 1
20-07588	09/03/2020	10/22/2020	2020	49	Solar	Level 1
20-07589	08/10/2020	11/29/2020	2020	111	Solar	Level 1
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20-07596	08/10/2020	11/19/2020	2020	101	Solar	Level 1
20-07597	08/10/2020	12/04/2020	2020	116	Solar	Level 1
20-07598	08/10/2020	09/22/2020	2020	43	Solar	Level 1
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20-07601	08/10/2020	11/27/2020	2020	109	Solar	Level 1
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20-07629	08/11/2020	11/13/2020	2020	94	Solar	Level 1
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20-07637	08/11/2020	10/16/2020	2020	66	Solar	Level 1
20-07638	08/11/2020	09/28/2020	2020	48	Solar	Level 1
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20-07640	08/11/2020	12/04/2020	2020	115	Solar	Level 1
20-07641	08/11/2020	10/12/2020	2020	62	Solar	Level 1
20-07642	08/11/2020	11/03/2020	2020	84	Solar	Level 1
20-07643	08/11/2020	12/01/2020	2020	112	Solar	Level 1
20-07646	08/12/2020	10/22/2020	2020	71	Solar	Level 1
20-07648	08/12/2020	12/17/2020	2020	127	Solar	Level 1
20-07649	08/12/2020	10/12/2020	2020	61	Solar	Level 1
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20-07865	08/19/2020	12/01/2020	2020	104	Solar	Level 1
20-07867	08/26/2020	12/31/2020	2020	127	Solar	Level 1
20-07874	08/26/2020	12/01/2020	2020	97	Solar	Level 1
20-07875	08/26/2020	10/22/2020	2020	57	Solar	Level 1

20-07877	08/19/2020	12/07/2020	2020	110	Solar	Level 1
20-07881	08/27/2020	10/21/2020	2020	55	Solar	Level 1
20-07882	08/19/2020	11/19/2020	2020	92	Solar	Level 1
20-07884	08/19/2020	10/06/2020	2020	48	Solar	Level 1
20-07885	08/19/2020	11/20/2020	2020	93	Solar	Level 1
20-07886	08/19/2020	11/19/2020	2020	92	Solar	Level 1
20-07887	08/19/2020	11/23/2020	2020	96	Solar	Level 1
20-07888	08/27/2020	10/08/2020	2020	42	Solar	Level 1
20-07890	09/02/2020	12/10/2020	2020	99	Solar	Level 1
20-07891	08/19/2020	12/10/2020	2020	113	Solar	Level 1
20-07892	08/19/2020	10/08/2020	2020	50	Solar	Level 1
20-07893	08/19/2020	10/12/2020	2020	54	Solar	Level 1
20-07894	08/26/2020	12/22/2020	2020	118	Solar	Level 1
20-07895	08/19/2020	10/08/2020	2020	50	Solar	Level 1
20-07897	08/19/2020	10/08/2020	2020	50	Solar	Level 1
20-07902	08/19/2020	10/19/2020	2020	61	Solar	Level 1
20-07903	08/19/2020	10/19/2020	2020	61	Solar	Level 1
20-07904	08/19/2020	10/22/2020	2020	64	Solar	Level 1
20-07905	08/19/2020	12/02/2020	2020	105	Solar	Level 1
20-07908	08/19/2020	11/25/2020	2020	98	Solar	Level 1
20-07909	08/19/2020	12/29/2020	2020	132	Solar	Level 1
20-07910	08/28/2020	10/01/2020	2020	34	Solar	Level 1
20-07911	08/19/2020	10/29/2020	2020	71	Solar	Level 1
20-07919	08/20/2020	11/16/2020	2020	88	Solar	Level 1
20-07920	08/28/2020	11/24/2020	2020	88	Solar	Level 1
20-07921	08/20/2020	09/25/2020	2020	36	Solar	Level 1
20-07922	08/20/2020	10/14/2020	2020	55	Solar	Level 1
20-07923	08/20/2020	09/16/2020	2020	27	Solar	Level 1
20-07927	08/20/2020	12/09/2020	2020	111	Solar	Level 1
20-07929	08/20/2020	10/06/2020	2020	47	Solar	Level 1
20-07932	08/20/2020	11/10/2020	2020	82	Solar	Level 1
20-07933	08/20/2020	09/17/2020	2020	28	Solar	Level 1
20-07934	08/27/2020	11/13/2020	2020	78	Solar	Level 1
20-07940	08/20/2020	12/31/2020	2020	133	Solar	Level 1
20-07943	08/27/2020	10/13/2020	2020	47	Solar	Level 1
20-07944	08/28/2020	09/24/2020	2020	27	Solar	Level 1
20-07945	08/20/2020	09/17/2020	2020	28	Solar	Level 1
20-07948	08/20/2020	11/13/2020	2020	85	Solar	Level 1
20-07949	08/20/2020	10/20/2020	2020	61	Solar	Level 1
20-07950	08/20/2020	11/01/2020	2020	73	Solar	Level 1
20-07953	08/20/2020	10/15/2020	2020	56	Solar	Level 1

20-07955	08/20/2020	10/07/2020	2020	48	Solar	Level 1
20-07957	08/20/2020	11/19/2020	2020	91	Solar	Level 1
20-07958	08/20/2020	11/06/2020	2020	78	Solar	Level 1
20-07959	08/20/2020	10/22/2020	2020	63	Solar	Level 1
20-07961	08/20/2020	09/24/2020	2020	35	Solar	Level 1
20-07962	08/20/2020	12/04/2020	2020	106	Solar	Level 1
20-07964	08/21/2020	09/18/2020	2020	28	Solar	Level 1
20-07967	08/21/2020	09/30/2020	2020	40	Solar	Level 1
20-07968	08/21/2020	12/02/2020	2020	103	Solar	Level 1
20-07970	08/21/2020	10/28/2020	2020	68	Solar	Level 1
20-07971	08/21/2020	10/22/2020	2020	62	Solar	Level 1
20-07972	08/21/2020	10/13/2020	2020	53	Solar	Level 1
20-07973	08/21/2020	10/20/2020	2020	60	Solar	Level 1
20-07974	08/21/2020	10/16/2020	2020	56	Solar	Level 1
20-07979	08/21/2020	10/23/2020	2020	63	Solar	Level 1
20-07981	08/21/2020	12/04/2020	2020	105	Solar	Level 1
20-07983	08/21/2020	12/11/2020	2020	112	Solar	Level 1
20-07984	08/21/2020	10/23/2020	2020	63	Solar	Level 1
20-07985	08/21/2020	10/14/2020	2020	54	Solar	Level 1
20-07986	08/21/2020	12/21/2020	2020	122	Solar	Level 1
20-07987	08/21/2020	11/25/2020	2020	96	Solar	Level 1
20-07988	08/21/2020	12/11/2020	2020	112	Solar	Level 1
20-07989	08/21/2020	12/10/2020	2020	111	Solar	Level 1
20-07990	08/21/2020	11/06/2020	2020	77	Solar	Level 1
20-07991	08/21/2020	11/06/2020	2020	77	Solar	Level 1
20-07994	08/21/2020	11/19/2020	2020	90	Solar	Level 1
20-07995	08/21/2020	10/19/2020	2020	59	Solar	Level 1
20-07996	08/21/2020	10/19/2020	2020	59	Solar	Level 1
20-08001	08/24/2020	12/30/2020	2020	128	Solar	Level 1
20-08003	08/21/2020	10/23/2020	2020	63	Solar	Level 1
20-08006	08/21/2020	11/04/2020	2020	75	Solar	Level 1
20-08008	08/21/2020	10/12/2020	2020	52	Solar	Level 1
20-08010	08/21/2020	11/19/2020	2020	90	Solar	Level 1
20-08012	08/21/2020	09/21/2020	2020	31	Solar	Level 1
20-08013	08/21/2020	11/17/2020	2020	88	Solar	Level 1
20-08019	08/22/2020	12/11/2020	2020	111	Solar	Level 1
20-08020	08/23/2020	11/25/2020	2020	94	Solar	Level 1
20-08021	08/23/2020	09/22/2020	2020	30	Solar	Level 1
20-08023	08/23/2020	11/12/2020	2020	81	Solar	Level 1
20-08024	08/24/2020	10/20/2020	2020	57	Solar	Level 1
20-08025	08/24/2020	11/04/2020	2020	72	Solar	Level 1

20-08026	08/24/2020	10/06/2020	2020	43	Solar	Level 1
20-08027	08/24/2020	12/04/2020	2020	102	Solar	Level 1
20-08029	08/24/2020	10/07/2020	2020	44	Solar	Level 1
20-08034	08/25/2020	10/14/2020	2020	50	Solar	Level 1
20-08036	08/24/2020	12/08/2020	2020	106	Solar	Level 1
20-08038	08/24/2020	10/22/2020	2020	59	Solar	Level 1
20-08041	08/24/2020	11/24/2020	2020	92	Solar	Level 1
20-08042	08/25/2020	10/07/2020	2020	43	Solar	Level 1
20-08047	08/24/2020	11/03/2020	2020	71	Solar	Level 1
20-08049	08/24/2020	10/07/2020	2020	44	Solar	Level 1
20-08050	08/24/2020	12/17/2020	2020	115	Solar	Level 1
20-08052	08/24/2020	11/19/2020	2020	87	Solar	Level 1
20-08053	08/24/2020	11/25/2020	2020	93	Solar	Level 1
20-08055	08/24/2020	09/30/2020	2020	37	Solar	Level 1
20-08060	08/24/2020	12/12/2020	2020	110	Solar	Level 1
20-08062	08/24/2020	12/17/2020	2020	115	Solar	Level 1
20-08066	08/24/2020	10/12/2020	2020	49	Solar	Level 1
20-08067	08/24/2020	10/12/2020	2020	49	Solar	Level 1
20-08068	08/24/2020	10/08/2020	2020	45	Solar	Level 1
20-08069	08/24/2020	10/20/2020	2020	57	Solar	Level 1
20-08072	08/24/2020	12/17/2020	2020	115	Solar	Level 1
20-08073	08/24/2020	12/28/2020	2020	126	Solar	Level 1
20-08074	08/24/2020	11/04/2020	2020	72	Solar	Level 1
20-08077	08/25/2020	10/15/2020	2020	51	Solar	Level 1
20-08078	08/26/2020	12/14/2020	2020	110	Solar	Level 1
20-08079	09/14/2020	10/08/2020	2020	24	Solar	Level 1
20-08080	08/25/2020	12/18/2020	2020	115	Solar	Level 1
20-08081	08/25/2020	11/19/2020	2020	86	Solar	Level 1
20-08082	08/26/2020	12/10/2020	2020	106	Solar	Level 1
20-08083	08/25/2020	09/25/2020	2020	31	Solar	Level 1
20-08084	08/25/2020	09/24/2020	2020	30	Solar	Level 1
20-08089	08/25/2020	10/30/2020	2020	66	Solar	Level 1
20-08091	08/25/2020	11/25/2020	2020	92	Solar	Level 1
20-08092	08/25/2020	11/14/2020	2020	81	Solar	Level 1
20-08094	08/25/2020	11/25/2020	2020	92	Solar	Level 1
20-08095	08/25/2020	10/12/2020	2020	48	Solar	Level 1
20-08096	08/25/2020	12/17/2020	2020	114	Solar	Level 1
20-08097	08/25/2020	12/21/2020	2020	118	Solar	Level 1
20-08099	08/25/2020	12/21/2020	2020	118	Solar	Level 1
20-08100	08/25/2020	12/15/2020	2020	112	Solar	Level 1
20-08106	08/25/2020	12/17/2020	2020	114	Solar	Level 1

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20-08109	08/25/2020	10/22/2020	2020	58	Solar	Level 1
20-08111	08/25/2020	12/17/2020	2020	114	Solar	Level 1
20-08114	08/25/2020	12/10/2020	2020	107	Solar	Level 1
20-08115	08/25/2020	12/30/2020	2020	127	Solar	Level 1
20-08116	08/25/2020	11/04/2020	2020	71	Solar	Level 1
20-08117	08/25/2020	12/01/2020	2020	98	Solar	Level 1
20-08118	08/25/2020	10/23/2020	2020	59	Solar	Level 1
20-08121	08/26/2020	11/30/2020	2020	96	Solar	Level 1
20-08125	08/26/2020	11/17/2020	2020	83	Solar	Level 1
20-08126	08/26/2020	10/20/2020	2020	55	Solar	Level 1
20-08127	08/26/2020	10/07/2020	2020	42	Solar	Level 1
20-08129	08/26/2020	10/02/2020	2020	37	Solar	Level 1
20-08133	08/26/2020	12/23/2020	2020	119	Solar	Level 1
20-08135	08/26/2020	11/01/2020	2020	67	Solar	Level 1
20-08141	08/26/2020	11/04/2020	2020	70	Solar	Level 1
20-08142	08/26/2020	11/17/2020	2020	83	Solar	Level 1
20-08146	08/26/2020	09/30/2020	2020	35	Solar	Level 1
20-08147	08/26/2020	11/25/2020	2020	91	Solar	Level 1
20-08148	08/26/2020	12/16/2020	2020	112	Solar	Level 1
20-08149	08/26/2020	12/17/2020	2020	113	Solar	Level 1
20-08150	08/26/2020	10/16/2020	2020	51	Solar	Level 1
20-08152	08/26/2020	10/19/2020	2020	54	Solar	Level 1
20-08153	08/26/2020	11/25/2020	2020	91	Solar	Level 1
20-08157	08/26/2020	10/01/2020	2020	36	Solar	Level 1
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20-08159	08/26/2020	12/21/2020	2020	117	Solar	Level 1
20-08160	08/26/2020	12/18/2020	2020	114	Solar	Level 1
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20-08162	08/26/2020	10/06/2020	2020	41	Solar	Level 1
20-08163	08/26/2020	10/12/2020	2020	47	Solar	Level 1
20-08164	08/26/2020	11/25/2020	2020	91	Solar	Level 1
20-08165	08/26/2020	11/12/2020	2020	78	Solar	Level 1
20-08168	08/26/2020	11/17/2020	2020	83	Solar	Level 1
20-08170	09/02/2020	12/29/2020	2020	118	Solar	Level 1
20-08171	08/26/2020	12/07/2020	2020	103	Solar	Level 1
20-08172	08/26/2020	10/14/2020	2020	49	Solar	Level 1
20-08173	08/26/2020	11/12/2020	2020	78	Solar	Level 1
20-08177	08/26/2020	10/22/2020	2020	57	Solar	Level 1
20-08179	08/26/2020	11/04/2020	2020	70	Solar	Level 1
20-08180	08/26/2020	10/09/2020	2020	44	Solar	Level 1

20-08181	08/26/2020	11/12/2020	2020	78	Solar	Level 1
20-08182	08/26/2020	11/12/2020	2020	78	Solar	Level 1
20-08184	08/26/2020	12/17/2020	2020	113	Solar	Level 1
20-08185	08/26/2020	10/28/2020	2020	63	Solar	Level 1
20-08186	08/26/2020	10/15/2020	2020	50	Solar	Level 1
20-08188	08/26/2020	11/09/2020	2020	75	Solar	Level 1
20-08190	08/26/2020	12/10/2020	2020	106	Solar	Level 1
20-08191	08/26/2020	10/13/2020	2020	48	Solar	Level 1
20-08192	08/26/2020	12/21/2020	2020	117	Solar	Level 1
20-08193	08/26/2020	12/07/2020	2020	103	Solar	Level 1
20-08194	08/26/2020	11/25/2020	2020	91	Solar	Level 1
20-08195	08/26/2020	10/22/2020	2020	57	Solar	Level 1
20-08198	08/26/2020	10/01/2020	2020	36	Solar	Level 1
20-08199	08/27/2020	09/22/2020	2020	26	Solar	Level 1
20-08206	08/27/2020	12/21/2020	2020	116	Solar	Level 1
20-08209	08/27/2020	09/18/2020	2020	22	Solar	Level 1
20-08214	08/27/2020	11/19/2020	2020	84	Solar	Level 1
20-08218	08/27/2020	11/12/2020	2020	77	Solar	Level 1
20-08225	08/27/2020	11/04/2020	2020	69	Solar	Level 1
20-08226	08/27/2020	11/12/2020	2020	77	Solar	Level 1
20-08229	08/27/2020	11/15/2020	2020	80	Solar	Level 1
20-08230	08/27/2020	11/17/2020	2020	82	Solar	Level 1
20-08231	08/27/2020	10/15/2020	2020	49	Solar	Level 1
20-08232	08/27/2020	10/05/2020	2020	39	Solar	Level 1
20-08235	08/27/2020	10/19/2020	2020	53	Solar	Level 1
20-08237	08/27/2020	11/25/2020	2020	90	Solar	Level 1
20-08239	08/27/2020	10/22/2020	2020	56	Solar	Level 1
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20-08241	08/27/2020	10/22/2020	2020	56	Solar	Level 1
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20-08252	08/28/2020	11/16/2020	2020	80	Solar	Level 1
20-08253	08/28/2020	11/25/2020	2020	89	Solar	Level 1
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20-08255	08/28/2020	10/23/2020	2020	56	Solar	Level 1
20-08257	08/28/2020	10/08/2020	2020	41	Solar	Level 1
20-08258	08/28/2020	11/05/2020	2020	69	Solar	Level 1
20-08259	08/28/2020	11/16/2020	2020	80	Solar	Level 1
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20-08261	08/28/2020	12/10/2020	2020	104	Solar	Level 1

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20-08266	08/28/2020	11/13/2020	2020	77	Solar	Level 1
20-08267	08/28/2020	10/16/2020	2020	49	Solar	Level 1
20-08268	08/28/2020	11/16/2020	2020	80	Solar	Level 1
20-08269	08/28/2020	12/19/2020	2020	113	Solar	Level 1
20-08270	08/28/2020	10/06/2020	2020	39	Solar	Level 1
20-08271	08/28/2020	12/21/2020	2020	115	Solar	Level 1
20-08274	08/28/2020	12/01/2020	2020	95	Solar	Level 1
20-08275	08/28/2020	11/04/2020	2020	68	Solar	Level 1
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20-08284	08/28/2020	10/08/2020	2020	41	Solar	Level 1
20-08285	08/28/2020	11/25/2020	2020	89	Solar	Level 1
20-08286	08/28/2020	11/25/2020	2020	89	Solar	Level 1
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20-08290	08/28/2020	10/20/2020	2020	53	Solar	Level 1
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20-08293	08/28/2020	11/24/2020	2020	88	Solar	Level 1
20-08294	08/28/2020	12/29/2020	2020	123	Solar	Level 1
20-08295	08/28/2020	11/30/2020	2020	94	Solar	Level 1
20-08298	08/28/2020	12/22/2020	2020	116	Solar	Level 1
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20-08305	08/28/2020	12/14/2020	2020	108	Solar	Level 1
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20-08308	08/29/2020	12/28/2020	2020	121	Solar	Level 1
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20-08325	08/31/2020	10/15/2020	2020	45	Solar	Level 1
20-08327	08/31/2020	12/23/2020	2020	114	Solar	Level 1
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20-08330	08/31/2020	11/10/2020	2020	71	Solar	Level 1
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20-08335	08/31/2020	11/07/2020	2020	68	Solar	Level 1
20-08337	08/31/2020	11/04/2020	2020	65	Solar	Level 1
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20-08342	08/31/2020	11/29/2020	2020	90	Solar	Level 1

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20-08350	08/31/2020	11/25/2020	2020	86	Solar	Level 1
20-08351	08/31/2020	12/27/2020	2020	118	Solar	Level 1
20-08352	08/31/2020	11/12/2020	2020	73	Solar	Level 1
20-08353	08/31/2020	12/04/2020	2020	95	Solar	Level 1
20-08354	08/31/2020	12/08/2020	2020	99	Solar	Level 1
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20-08360	08/31/2020	11/25/2020	2020	86	Solar	Level 1
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20-08363	08/31/2020	11/30/2020	2020	91	Solar	Level 1
20-08364	08/31/2020	11/18/2020	2020	79	Solar	Level 1
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20-08368	08/31/2020	11/30/2020	2020	91	Solar	Level 1
20-08369	08/31/2020	12/10/2020	2020	101	Solar	Level 1
20-08372	08/31/2020	11/19/2020	2020	80	Solar	Level 1
20-08374	08/31/2020	10/22/2020	2020	52	Solar	Level 1
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20-08379	09/01/2020	10/06/2020	2020	35	Solar	Level 1
20-08380	09/01/2020	11/16/2020	2020	76	Solar	Level 1
20-08381	09/01/2020	11/24/2020	2020	84	Solar	Level 1
20-08383	09/01/2020	11/12/2020	2020	72	Solar	Level 1
20-08385	09/01/2020	11/06/2020	2020	66	Solar	Level 1
20-08388	09/01/2020	10/15/2020	2020	44	Solar	Level 1
20-08389	09/01/2020	11/04/2020	2020	64	Solar	Level 1
20-08392	09/01/2020	10/19/2020	2020	48	Solar	Level 1
20-08394	09/01/2020	11/06/2020	2020	66	Solar	Level 1
20-08401	09/01/2020	12/29/2020	2020	119	Solar	Level 1
20-08402	09/01/2020	11/16/2020	2020	76	Solar	Level 1
20-08404	09/01/2020	12/10/2020	2020	100	Solar	Level 1
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20-08409	09/01/2020	10/14/2020	2020	43	Solar	Level 1
20-08411	09/01/2020	11/08/2020	2020	68	Solar	Level 1
20-08414	09/01/2020	11/06/2020	2020	66	Solar	Level 1
20-08416	09/01/2020	12/14/2020	2020	104	Solar	Level 1

20-08417	09/01/2020	12/21/2020	2020	111	Solar	Level 1
20-08418	09/01/2020	10/16/2020	2020	45	Solar	Level 1
20-08419	09/01/2020	12/21/2020	2020	111	Solar	Level 1
20-08421	09/01/2020	12/21/2020	2020	111	Solar	Level 1
20-08422	09/01/2020	10/12/2020	2020	41	Solar	Level 1
20-08424	09/01/2020	10/26/2020	2020	55	Solar	Level 1
20-08426	09/01/2020	11/12/2020	2020	72	Solar	Level 1
20-08427	09/01/2020	10/12/2020	2020	41	Solar	Level 1
20-08428	09/01/2020	11/12/2020	2020	72	Solar	Level 1
20-08429	09/01/2020	09/20/2020	2020	19	Solar	Level 1
20-08430	09/01/2020	11/04/2020	2020	64	Solar	Level 1
20-08433	09/01/2020	11/12/2020	2020	72	Solar	Level 1
20-08434	09/01/2020	12/18/2020	2020	108	Solar	Level 1
20-08435	09/01/2020	10/19/2020	2020	48	Solar	Level 1
20-08436	09/01/2020	12/10/2020	2020	100	Solar	Level 1
20-08439	09/02/2020	10/12/2020	2020	40	Solar	Level 1
20-08441	09/02/2020	11/09/2020	2020	68	Solar	Level 1
20-08442	09/02/2020	12/11/2020	2020	100	Solar	Level 1
20-08447	09/02/2020	10/06/2020	2020	34	Solar	Level 1
20-08449	09/02/2020	11/11/2020	2020	70	Solar	Level 1
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20-08452	09/02/2020	12/10/2020	2020	99	Solar	Level 1
20-08453	09/02/2020	10/15/2020	2020	43	Solar	Level 1
20-08458	09/02/2020	11/19/2020	2020	78	Solar	Level 1
20-08459	09/02/2020	10/05/2020	2020	33	Solar	Level 1
20-08462	09/02/2020	10/12/2020	2020	40	Solar	Level 1
20-08463	09/02/2020	12/10/2020	2020	99	Solar	Level 1
20-08465	09/02/2020	10/13/2020	2020	41	Solar	Level 1
20-08466	09/02/2020	11/04/2020	2020	63	Solar	Level 1
20-08473	09/02/2020	12/29/2020	2020	118	Solar	Level 1
20-08475	09/02/2020	12/21/2020	2020	110	Solar	Level 1
20-08477	09/02/2020	11/19/2020	2020	78	Solar	Level 1
20-08478	09/02/2020	12/17/2020	2020	106	Solar	Level 1
20-08479	09/02/2020	11/11/2020	2020	70	Solar	Level 1
20-08481	09/02/2020	12/28/2020	2020	117	Solar	Level 1
20-08482	09/02/2020	11/12/2020	2020	71	Solar	Level 1
20-08483	09/02/2020	12/10/2020	2020	99	Solar	Level 1
20-08484	09/02/2020	11/19/2020	2020	78	Solar	Level 1
20-08492	09/02/2020	11/13/2020	2020	72	Solar	Level 1
20-08494	09/02/2020	12/31/2020	2020	120	Solar	Level 1

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20-08507	09/02/2020	11/25/2020	2020	84	Solar	Level 1
20-08509	09/02/2020	10/19/2020	2020	47	Solar	Level 1
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20-08517	09/03/2020	11/04/2020	2020	62	Solar	Level 1
20-08518	09/03/2020	12/10/2020	2020	98	Solar	Level 1
20-08519	09/03/2020	11/09/2020	2020	67	Solar	Level 1
20-08520	09/03/2020	11/08/2020	2020	66	Solar	Level 1
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20-08522	09/03/2020	11/18/2020	2020	76	Solar	Level 1
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20-08526	09/03/2020	12/21/2020	2020	109	Solar	Level 1
20-08527	09/03/2020	11/25/2020	2020	83	Solar	Level 1
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20-08554	09/03/2020	12/14/2020	2020	102	Solar	Level 1
20-08555	09/03/2020	12/12/2020	2020	100	Solar	Level 1
20-08557	09/03/2020	12/10/2020	2020	98	Solar	Level 1
20-08559	09/03/2020	11/25/2020	2020	83	Solar	Level 1
20-08560	09/03/2020	11/11/2020	2020	69	Solar	Level 1
20-08561	09/03/2020	11/20/2020	2020	78	Solar	Level 1
20-08562	09/03/2020	12/10/2020	2020	98	Solar	Level 1
20-08563	09/03/2020	12/29/2020	2020	117	Solar	Level 1
20-08564	09/04/2020	12/02/2020	2020	89	Solar	Level 1
20-08565	09/04/2020	11/14/2020	2020	71	Solar	Level 1
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20-08570	09/04/2020	11/19/2020	2020	76	Solar	Level 1
20-08572	09/04/2020	11/17/2020	2020	74	Solar	Level 1
20-08574	09/04/2020	11/28/2020	2020	85	Solar	Level 1
20-08575	09/04/2020	10/22/2020	2020	48	Solar	Level 1
20-08577	09/04/2020	11/19/2020	2020	76	Solar	Level 1
20-08578	09/04/2020	10/23/2020	2020	49	Solar	Level 1
20-08580	09/04/2020	11/04/2020	2020	61	Solar	Level 1
20-08582	09/04/2020	11/12/2020	2020	69	Solar	Level 1
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20-08587	09/04/2020	12/29/2020	2020	116	Solar	Level 1
20-08589	09/04/2020	11/06/2020	2020	63	Solar	Level 1
20-08591	09/04/2020	12/10/2020	2020	97	Solar	Level 1
20-08593	09/04/2020	10/22/2020	2020	48	Solar	Level 1
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20-08627	09/07/2020	10/22/2020	2020	45	Solar	Level 1
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20-08641	09/07/2020	12/21/2020	2020	105	Solar	Level 1
20-08647	09/07/2020	12/08/2020	2020	92	Solar	Level 1
20-08648	09/07/2020	11/19/2020	2020	73	Solar	Level 1
20-08649	09/08/2020	12/10/2020	2020	93	Solar	Level 1

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20-08656	09/08/2020	11/06/2020	2020	59	Solar	Level 1
20-08657	09/08/2020	10/28/2020	2020	50	Solar	Level 1
20-08659	09/08/2020	10/15/2020	2020	37	Solar	Level 1
20-08661	09/08/2020	12/21/2020	2020	104	Solar	Level 1
20-08664	09/08/2020	10/21/2020	2020	43	Solar	Level 1
20-08666	09/08/2020	10/21/2020	2020	43	Solar	Level 1
20-08668	09/08/2020	10/22/2020	2020	44	Solar	Level 1
20-08669	09/08/2020	12/29/2020	2020	112	Solar	Level 1
20-08671	09/08/2020	10/16/2020	2020	38	Solar	Level 1
20-08674	09/08/2020	11/25/2020	2020	78	Solar	Level 1
20-08676	09/08/2020	11/04/2020	2020	57	Solar	Level 1
20-08678	09/08/2020	12/23/2020	2020	106	Solar	Level 1
20-08684	09/08/2020	11/07/2020	2020	60	Solar	Level 1
20-08685	09/08/2020	11/19/2020	2020	72	Solar	Level 1
20-08691	09/08/2020	10/28/2020	2020	50	Solar	Level 1
20-08692	09/08/2020	11/19/2020	2020	72	Solar	Level 1
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20-08733	09/09/2020	11/13/2020	2020	65	Solar	Level 1
20-08737	09/09/2020	12/10/2020	2020	92	Solar	Level 1
20-08738	09/09/2020	12/10/2020	2020	92	Solar	Level 1
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20-08741	09/09/2020	12/17/2020	2020	99	Solar	Level 1
20-08743	09/09/2020	12/08/2020	2020	90	Solar	Level 1
20-08744	09/09/2020	12/10/2020	2020	92	Solar	Level 1
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20-08767	09/10/2020	10/21/2020	2020	41	Solar	Level 1
20-08768	09/10/2020	12/11/2020	2020	92	Solar	Level 1
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20-08818	09/11/2020	11/12/2020	2020	62	Solar	Level 1
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20-09009	09/16/2020	12/31/2020	2020	106	Solar	Level 1
20-09016	09/16/2020	11/05/2020	2020	50	Solar	Level 1
20-09025	09/16/2020	11/04/2020	2020	49	Solar	Level 1
20-09027	09/16/2020	11/12/2020	2020	57	Solar	Level 1
20-09030	09/16/2020	12/11/2020	2020	86	Solar	Level 1
20-09031	09/16/2020	10/08/2020	2020	22	Solar	Level 1
20-09032	09/16/2020	11/19/2020	2020	64	Solar	Level 1
20-09039	09/16/2020	11/24/2020	2020	69	Solar	Level 1
20-09040	09/16/2020	12/21/2020	2020	96	Solar	Level 1
20-09047	09/16/2020	11/02/2020	2020	47	Solar	Level 1
20-09049	09/17/2020	12/01/2020	2020	75	Solar	Level 1
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20-09052	09/16/2020	11/15/2020	2020	60	Solar	Level 1
20-09059	09/16/2020	11/18/2020	2020	63	Solar	Level 1
20-09060	09/16/2020	12/07/2020	2020	82	Solar	Level 1
20-09065	09/16/2020	11/14/2020	2020	59	Solar	Level 1
20-09066	09/16/2020	11/17/2020	2020	62	Solar	Level 1
20-09075	09/16/2020	11/04/2020	2020	49	Solar	Level 1
20-09086	09/17/2020	11/25/2020	2020	69	Solar	Level 1
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20-09092	09/17/2020	11/19/2020	2020	63	Solar	Level 1
20-09093	09/17/2020	10/20/2020	2020	33	Solar	Level 1
20-09097	09/17/2020	11/29/2020	2020	73	Solar	Level 1
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20-09099	09/17/2020	12/10/2020	2020	84	Solar	Level 1
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20-09116	09/18/2020	11/20/2020	2020	63	Solar	Level 1
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20-09136	09/18/2020	10/06/2020	2020	18	Solar	Level 1
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20-09166	09/21/2020	11/02/2020	2020	42	Solar	Level 1
20-09167	09/21/2020	11/09/2020	2020	49	Solar	Level 1
20-09168	09/21/2020	12/03/2020	2020	73	Solar	Level 1
20-09170	09/21/2020	12/29/2020	2020	99	Solar	Level 1
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20-09204	09/21/2020	12/15/2020	2020	85	Solar	Level 1
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20-09209	09/21/2020	11/23/2020	2020	63	Solar	Level 1
20-09210	09/21/2020	12/21/2020	2020	91	Solar	Level 1
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20-09334	09/23/2020	12/29/2020	2020	97	Solar	Level 1
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20-09732	10/01/2020	12/08/2020	2020	68	Solar	Level 1
20-09733	10/01/2020	10/22/2020	2020	21	Solar	Level 1
20-09734	10/01/2020	11/12/2020	2020	42	Solar	Level 1
20-09736	10/01/2020	10/28/2020	2020	27	Solar	Level 1
20-09737	10/01/2020	12/28/2020	2020	88	Solar	Level 1
20-09738	10/01/2020	12/11/2020	2020	71	Solar	Level 1
20-09741	10/01/2020	10/21/2020	2020	20	Solar	Level 1
20-09745	10/01/2020	11/25/2020	2020	55	Solar	Level 1
20-09746	10/01/2020	12/07/2020	2020	67	Solar	Level 1
20-09747	10/01/2020	11/19/2020	2020	49	Solar	Level 1
20-09751	10/01/2020	11/02/2020	2020	32	Solar	Level 1
20-09752	10/01/2020	11/16/2020	2020	46	Solar	Level 1
20-09762	10/02/2020	12/11/2020	2020	70	Solar	Level 1
20-09763	10/02/2020	11/19/2020	2020	48	Solar	Level 1
20-09764	10/02/2020	12/10/2020	2020	69	Solar	Level 1
20-09766	10/02/2020	12/29/2020	2020	88	Solar	Level 1
20-09768	10/02/2020	12/10/2020	2020	69	Solar	Level 1
20-09770	10/02/2020	12/21/2020	2020	80	Solar	Level 1
20-09772	10/02/2020	12/31/2020	2020	90	Solar	Level 1
20-09774	10/02/2020	11/25/2020	2020	54	Solar	Level 1
20-09776	10/02/2020	12/22/2020	2020	81	Solar	Level 1
20-09779	10/02/2020	12/10/2020	2020	69	Solar	Level 1
20-09781	10/02/2020	11/19/2020	2020	48	Solar	Level 1
20-09782	10/02/2020	11/19/2020	2020	48	Solar	Level 1
20-09783	10/02/2020	11/12/2020	2020	41	Solar	Level 1
20-09784	10/09/2020	11/25/2020	2020	47	Solar	Level 1
20-09787	10/02/2020	12/02/2020	2020	61	Solar	Level 1
20-09789	10/02/2020	12/04/2020	2020	63	Solar	Level 1
20-09790	10/02/2020	12/08/2020	2020	67	Solar	Level 1
20-09791	10/02/2020	12/11/2020	2020	70	Solar	Level 1
20-09795	10/02/2020	11/13/2020	2020	42	Solar	Level 1
20-09798	10/02/2020	12/07/2020	2020	66	Solar	Level 1
20-09799	10/02/2020	12/17/2020	2020	76	Solar	Level 1
20-09801	10/02/2020	11/19/2020	2020	48	Solar	Level 1

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20-09805	10/02/2020	12/02/2020	2020	61	Solar	Level 1
20-09806	10/05/2020	12/14/2020	2020	70	Solar	Level 1
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20-09809	10/02/2020	12/04/2020	2020	63	Solar	Level 1
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20-09829	10/02/2020	12/23/2020	2020	82	Solar	Level 1
20-09830	10/02/2020	12/08/2020	2020	67	Solar	Level 1
20-09832	10/02/2020	11/19/2020	2020	48	Solar	Level 1
20-09836	10/02/2020	11/14/2020	2020	43	Solar	Level 1
20-09841	10/02/2020	12/10/2020	2020	69	Solar	Level 1
20-09845	10/03/2020	12/21/2020	2020	79	Solar	Level 1
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20-09853	10/04/2020	12/10/2020	2020	67	Solar	Level 1
20-09854	10/04/2020	10/23/2020	2020	19	Solar	Level 1
20-09858	10/05/2020	12/14/2020	2020	70	Solar	Level 1
20-09859	10/05/2020	11/15/2020	2020	41	Solar	Level 1
20-09861	10/05/2020	12/30/2020	2020	86	Solar	Level 1
20-09862	10/05/2020	11/28/2020	2020	54	Solar	Level 1
20-09863	10/05/2020	12/08/2020	2020	64	Solar	Level 1
20-09870	10/05/2020	11/19/2020	2020	45	Solar	Level 1
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20-09873	10/05/2020	11/30/2020	2020	56	Solar	Level 1
20-09875	10/05/2020	11/25/2020	2020	51	Solar	Level 1
20-09876	10/05/2020	11/25/2020	2020	51	Solar	Level 1
20-09877	10/05/2020	12/29/2020	2020	85	Solar	Level 1
20-09878	10/05/2020	12/30/2020	2020	86	Solar	Level 1
20-09882	10/05/2020	12/07/2020	2020	63	Solar	Level 1
20-09885	10/05/2020	12/28/2020	2020	84	Solar	Level 1
20-09886	10/05/2020	11/25/2020	2020	51	Solar	Level 1
20-09898	10/05/2020	12/29/2020	2020	85	Solar	Level 1
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20-09908	10/05/2020	12/28/2020	2020	84	Solar	Level 1

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20-09918	10/05/2020	11/25/2020	2020	51	Solar	Level 1
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20-09926	10/05/2020	12/28/2020	2020	84	Solar	Level 1
20-09928	10/05/2020	11/25/2020	2020	51	Solar	Level 1
20-09929	10/05/2020	12/10/2020	2020	66	Solar	Level 1
20-09930	10/05/2020	12/14/2020	2020	70	Solar	Level 1
20-09931	10/06/2020	11/10/2020	2020	35	Solar	Level 1
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20-09938	10/06/2020	11/30/2020	2020	55	Solar	Level 1
20-09941	10/06/2020	11/06/2020	2020	31	Solar	Level 1
20-09943	10/06/2020	11/25/2020	2020	50	Solar	Level 1
20-09945	10/06/2020	11/19/2020	2020	44	Solar	Level 1
20-09949	10/06/2020	11/30/2020	2020	55	Solar	Level 1
20-09950	10/06/2020	12/28/2020	2020	83	Solar	Level 1
20-09952	10/06/2020	12/29/2020	2020	84	Solar	Level 1
20-09956	10/06/2020	12/29/2020	2020	84	Solar	Level 1
20-09960	10/06/2020	12/17/2020	2020	72	Solar	Level 1
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20-09966	10/06/2020	11/28/2020	2020	53	Solar	Level 1
20-09967	10/06/2020	12/10/2020	2020	65	Solar	Level 1
20-09969	10/06/2020	11/19/2020	2020	44	Solar	Level 1
20-09974	10/06/2020	12/10/2020	2020	65	Solar	Level 1
20-09977	10/06/2020	12/29/2020	2020	84	Solar	Level 1
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20-10030	10/07/2020	12/11/2020	2020	65	Solar	Level 1
20-10032	10/07/2020	12/10/2020	2020	64	Solar	Level 1
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20-10036	10/07/2020	11/06/2020	2020	30	Solar	Level 1

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20-10041	10/07/2020	12/29/2020	2020	83	Solar	Level 1
20-10042	10/07/2020	12/22/2020	2020	76	Solar	Level 1
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20-10051	10/14/2020	12/23/2020	2020	70	Solar	Level 1
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20-10059	10/07/2020	11/19/2020	2020	43	Solar	Level 1
20-10060	10/08/2020	12/08/2020	2020	61	Solar	Level 1
20-10065	10/08/2020	11/23/2020	2020	46	Solar	Level 1
20-10071	10/08/2020	11/25/2020	2020	48	Solar	Level 1
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20-10086	10/08/2020	12/09/2020	2020	62	Solar	Level 1
20-10090	10/08/2020	12/18/2020	2020	71	Solar	Level 1
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20-10094	10/08/2020	12/10/2020	2020	63	Solar	Level 1
20-10095	10/08/2020	12/11/2020	2020	64	Solar	Level 1
20-10096	10/08/2020	12/16/2020	2020	69	Solar	Level 1
20-10100	10/08/2020	11/29/2020	2020	52	Solar	Level 1
20-10103	10/08/2020	12/10/2020	2020	63	Solar	Level 1
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20-10132	10/09/2020	10/22/2020	2020	13	Solar	Level 1
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20-10157	10/09/2020	12/29/2020	2020	81	Solar	Level 1
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20-10224	10/12/2020	11/25/2020	2020	44	Solar	Level 1
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20-10240	10/12/2020	11/04/2020	2020	23	Solar	Level 1
20-10241	10/12/2020	12/10/2020	2020	59	Solar	Level 1
20-10242	10/12/2020	12/12/2020	2020	61	Solar	Level 1
20-10243	10/12/2020	12/29/2020	2020	78	Solar	Level 1
20-10244	10/12/2020	12/29/2020	2020	78	Solar	Level 1
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20-10287	10/13/2020	12/29/2020	2020	77	Solar	Level 1
20-10289	10/13/2020	12/14/2020	2020	62	Solar	Level 1
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20-10303	10/13/2020	12/30/2020	2020	78	Solar	Level 1
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20-10377	10/15/2020	12/10/2020	2020	56	Solar	Level 1
20-10379	10/15/2020	12/02/2020	2020	48	Solar	Level 1
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20-10384	10/15/2020	12/11/2020	2020	57	Solar	Level 1
20-10387	10/15/2020	12/14/2020	2020	60	Solar	Level 1
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20-10519	10/20/2020	12/21/2020	2020	62	Solar	Level 1
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20-10566	10/20/2020	12/10/2020	2020	51	Solar	Level 1
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20-10576	10/20/2020	12/30/2020	2020	71	Solar	Level 1
20-10586	10/20/2020	12/02/2020	2020	43	Solar	Level 1
20-10594	10/21/2020	12/28/2020	2020	68	Solar	Level 1
20-10611	10/21/2020	12/19/2020	2020	59	Solar	Level 1
20-10612	10/21/2020	12/18/2020	2020	58	Solar	Level 1
20-10615	10/21/2020	12/30/2020	2020	70	Solar	Level 1

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20-10623	10/21/2020	11/12/2020	2020	22	Solar	Level 1
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ComEd
An Exelon Company

Smart Grid Advanced Metering Annual Implementation Progress Report

ATTACHMENT 3

Test Bed / Technology Demonstrations

ComEd
An Exelon Company

Commonwealth Edison Company's Quarterly Smart Grid Test Bed Report

February 14, 2021

I. Introduction

ComEd's Smart Grid Test Bed ("Test Bed") mission is to facilitate and provide open and unbiased live-grid opportunities for testing, demonstration, and promotion of innovative smart grid programs, technologies, business models, services, products, and other smart grid-related activities that may benefit ComEd's customers. ComEd created its Test Bed and associated objectives pursuant to subsection 16-108.8 of the Public Utilities Act ("Act"). ComEd protects the safety and security of its distribution grid and grid operations through the Test Bed Idea ("Idea") selection process and through management of Test Bed Demonstration ("Demonstration") projects.

ComEd's Test Bed vision is focused on providing innovative ways to demonstrate, in an open and unbiased manner, how working technology operates in a live utility scale environment. The Test Bed is not intended to provide a lab where investigational ideas are tested out; those facilities exist, and such tests are not appropriate for a live environment. The Test Bed allows approved Submitters, subject to appropriate protections, to connect technology to the utility grid for the purpose of demonstrating that the technology functions as designed. The Test Bed is designed to help validate business models or services by permitting demonstration of specific functional aspects of the technology and/or verification that services/business models provide the intended results.

The Test Bed is open to all qualified Submitters. ComEd envisions a diverse group of qualified Submitters that may consist of scientific, technical, entrepreneurial, innovative,

and non-technical Idea stakeholders. Ideas may come from a variety of sources including, but not limited to the Illinois Science and Energy Innovation Foundation ("Energy Foundry"), ComEd's own employees, professional organizations, universities, entrepreneurs, technology partners, and other ComEd stakeholders. By opening the Test Bed to a diverse group of stakeholders, ComEd will provide live-grid opportunities to as many Test Bed Demonstrations as reasonably feasible.

Accordingly, this report summarizes the Test Bed activities, discoveries, and other information deemed mutually relevant from October 1, 2020 through December 31, 2020 ("Reporting Period") as described in subsection (i) of Section 16-108.8 of the Act.

II. Test Bed Ideas

ComEd has led existing and new Test Bed Idea coordination activities during the current Reporting Period. Test Bed Idea status updates are provided in the following three categories: Potential Test Bed Idea Submissions, Recently Submitted Test Bed Ideas, and Previously Submitted Test Bed Ideas.

Stage of Development Symbols

New Idea Stage: Ideas are received, and an initial review is conducted to seek clarification on the Idea and to determine applicability of the technology for the Test Bed and for the ComEd system.

Analysis/Planning Stage: Internal subject matter experts work closely with the Submitter to develop a Demonstration Plan, which includes the Demonstration objectives and key functions of the technology to be tested, as well as the scope of work ("SOW"), associated costs, and success metrics.

Demonstration Stage: The technology is installed/constructed and demonstrated on ComEd's grid in accordance with the Demonstration Plan and/or Test Bed Agreement.

Potential Test Bed Idea Submissions

Southwire

Southwire has been working with Electric Power Research Institute ("EPRI") to develop a suite of substation sensors. The proposed technologies pose an integrated solution using a base station, i.e., a Southwire Gateway, to collect weather data and data from multiple sensors and to communicate that data to the local utility. The communication uses a process control network ("PCN") to transmit via a cellular network or direct wire to SCADA. The family of sensing technologies Southwire is proposing to include a Line Monitor, a Connector Monitor, and an Insulator Monitor. The innovative Insulator Monitor (porcelain, glass and polymer) senses contaminate deposit and build-up, and records temperature, humidity, rain, and wind speed and direction data. The sensor will send an alarm/notification (via 2.4 GHz RF) when the equipment requires maintenance before a flashover due to leakage current caused by moisture or contamination. Southwire has expressed interest in the Test Bed and is considering several different applications to determine which would be the best fit for the Test Bed.

Previously Submitted Test Bed Ideas

Akron/Exacter

The University of Akron (Department of Electrical and Computer Engineering) and Exacter propose to demonstrate their Transmission Tower Sensor. The demonstration system is a platform for various sensors and algorithms that are being evaluated and improved at the University of Akron. They continue with their internal testing and may demonstrate in the future.

Semtive

Semtive submitted an Idea for a renewable energy technology, the Nemoi, a Vertical Axis Wind Turbine. The turbines can be installed on streetlight structures or upon rooftops. Semtive currently has three 3-phase models: XS (12V; 100W nominal power; average 200KWh/year); S (24/48V; 200W; 350KWh/yr); and M (24/48V; 1KW; 2,5MWh/yr). Semtive is proposing a Test Bed Demonstration for its S-model and M-model, along with the electronics, to monitor and manage energy usage. The systems and the electronics are awaiting the Underwriters Laboratory Certification.

RIOK

RIOK has submitted an Idea for their Aluminum Guide Wire Adjustment Assembly ("GWAA"), which is designed to help minimize damages to lines caused by harsh environmental conditions, typically related to storms. The GWAA is a mechanical fitting that addresses both hardening and modernization of the grid in efforts to make the infrastructure more resilient. It is comprised of an elongated electrically conductive device that has two points of attachment, a built-in safety turnbuckle mechanism to help

with lateral moves within the line to address sagging or taut distribution lines, and a spring to aid in the deflection of debris and to provide flexibility in the service lines due to high winds. The Aluminum Guide Wire Adjustment Assembly has been designed to work with the electrical overhead service conductor or cable that is brought from a utility pole or other main source of electricity, to a point of attachment on or near the structure to bring electrical power. RIOK was awarded a patent from the United States Patent and Trademark Office, for their Aluminum Guide Wire Assembly. They are pursuing funding options to support their demonstration plan.

DNV GL

DNV GL submitted an Idea for their Smart Cable Guard system, which is designed to continuously monitor underground medium voltage cables and detect and locate full and intermittent faults and partial discharges. DNV GL's submitted idea was reviewed. As discussions continue, ComEd will work with DNV GL to determine how the proposed technology can be demonstrated in the Test Bed. DNV GL has committed to delivering the hardware for two complete systems, providing expert supervision of the installation, and training of ComEd personnel on the operation of the systems. ComEd reviewed the proposed equipment from a safety and standards perspective, and the next step is DNV GL's completion of the vendor security questionnaire.

Micatu Inc.

Micatu's Pole Tilt Sensor Technology is an Idea for a smart sensing technology that monitors pole tilt with battery-powered and wireless communications; monitors optical vibrations, vectors and displacement for transformer and circuit breakers; and monitors optical voltage and current. This Idea is concluded and will be removed from the report moving forward.

eluminocity US Inc.

In collaboration with the Illinois Institute of Technology ("IIT") and Itron Networked Solutions, eluminocity will be piloting their Light & Charge system, a combined smart LED streetlight and electric vehicle charging unit, which eluminocity developed in cooperation with automaker BMW. A smart wireless connectivity platform is integrated to allow for sensor-based applications such as lighting control based on occupancy or real-time parking space monitoring. A prototype system was installed in August 2016 at the Illinois Institute of Technology and displayed at a Department of Energy event shortly thereafter. The unit was a new installation in a parking lot at IIT. However, further applications can ideally be retrofitted to existing streetlights, thereby significantly lowering the costs of installation when compared to conventional EV charging stations. The luminaires are compatible with existing infrastructure and can be sized accordingly, with up to four LED modules per luminaire, further reducing energy consumption. All required testing for the UL Certification has been completed for the Light & Charge luminaire and electric vehicle charging station. The next step toward receiving the certification is to have a factory audit completed.

III. Test Bed Demonstration Projects

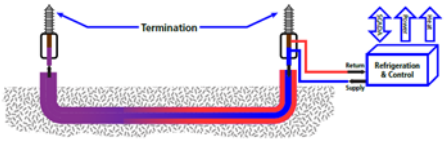
There were no active Demonstration projects in the reporting period. Previously completed Demonstration projects are not included within this report.

IV. Other Innovative Projects

ComEd's commitment to innovation is not limited to the Test Bed program. ComEd and its employees continue to develop new ideas, new products and customer offerings. ComEd has several partnerships with cutting edge companies and organizations. This section focuses on smart grid-related pilots and new technologies spurred by innovation.

Superconductor Development

ComEd and American Superconductor ("AMSC") agreed to participate with the Department of Homeland Security ("DHS") in its Resilient Electric Grid Program developing plans to deploy high temperature superconductor cable in Chicago's central business district ("CBD"). This DHS program is designed to provide protection against the catastrophic effects resulting from the loss of critical substation facilities by allowing the sharing of capacity of nearby substations that cannot typically be accomplished through conventional means.



The superconductor cable would interconnect three key electrical substations in the city and provide enhanced security and redundancy to critical infrastructure. Given the significant level of external funding and the size and scale of the project, one of the project goals is to significantly reduce the cost of manufacturing the superconductor cable.

In addition to providing reliable power and increased security, this installation of nearly one and one-half miles of superconductor cable would create the most extensive superconductor technology infrastructure in the world. ComEd's transformation of its business relies heavily on technology and innovation. In this era of increasingly intense weather events and other potential catastrophic occurrences, this project will not only support the City of Chicago but can serve as a model to enable widespread implementation of the superconductor technology nationally and globally. The pilot demonstration phase of the project within one Chicago substation is currently in construction and will be electrically complete in Q2 2021.

Microgrid Development

ComEd is continuing to demonstrate the technologies that will enable the first utility-operated microgrid cluster which will provide higher levels of resilience and sustainability to the Bronzeville neighborhood on the South Side of Chicago and the broader service territory.

The Microgrid Management System (“MGMS”) is the smart commercial version of Microgrid Master Controller (MMC), which was developed as part of the DOE Microgrid Integrated Solar Storage Technology (“MISST”) project under the Sustainable and Holistic Integration of Energy Storage and Solar PV (“SHINES”) grant. MGMS has continued to proceed through Site Acceptance Testing (“SAT”) to validate the functionality of the MGMS through a comprehensive set of hardware in the loop tests.

A test bed with detailed modeling of Bronzeville Community Microgrid (“BCM”) has been developed to emulate different operational scenarios. While the complete power circuit of the BCM is modeled in real time digital simulator (“RTDS”), a select number of control hardware devices are integrated and used as part of the test setup in a hardware-in-the-loop manner. The rest of the protection & control devices and distribution switchgear are simulated inside the RTDS model. Models of DERs along with load profiles and solar radiation profiles are also included in the RTDS real-time simulation model. The communication between RTDS and all the control devices have been verified. The control of microgrid simulated in RTDS using SCADA emulator to include normal operation, planned partial islanding, load transfer have been completed.

In 4Q 2020, the project team finalized the controllable generation request for proposal (“RFP “) process by selecting Enchanted Rock as the generator vendor. A distribution capacity agreement (“DCA”) was signed with Enchanted Rock to provide 4.8MW of controllable natural gas generation for the microgrid and serve as the primary source of power for the community while islanded.

The Oakland Substation in Bronzeville was selected as the location of the controllable generation. This recently remediated site will be electrically integrated into the microgrid using a new line extension. ComEd is working closely with the generation vendor on a design that meets the needs of the project as well as the stakeholders, and the generation is expected to be commissioned in early 2022.

The microgrid clustering design has made significant strides after selection of the generation vendor and generation site. ComEd and the customer-owned microgrid design team are near finalization of the sequence of operations for clustering & de-clustering operations. ComEd and the customer share a substation that will be upgraded as part of the design to allow for proper signals to be sent between he ComEd microgrid controller and the customer microgrid controller.

In 2019 ComEd started a partnership with the National Center for Disaster Preparedness at Columbia University's Earth Institute to evaluate the impact of grid investments in resilience such as the BCM on societal resilience. As an institution, NCDP works to understand and improve disaster response and recovery across the United States. Its insights into the complexities of populations recovery after disasters are valuable in informing ComEd's future deployment of grid technologies as maintaining power during or rapidly restoring it in the aftermath of a disaster is a critical enabler of community resilience.

In the Fall of 2020, the partnership conducted a tabletop exercise focused on Bronzeville that brought together community partners and emergency responders to evaluate the societal impacts of the microgrid during a simulated long duration power outage. To ensure that the exercise would leverage the microgrid and reflect the dynamics between and capabilities of emergency responders, community, and the area surrounding the microgrid, internal stakeholders from Smart Grid Programs, Emerging Technology, Grid Modernization, Emergency Preparedness, External Affairs, and

Large Customer Services collaborated with Cook County Emergency Management, the Chicago Office of Emergency Management and Communication (OEMC), Chicago Fire Department, Chicago Police Department, Chicago Public Health as well as various community organizations including Chicago Public Schools, a church, assisted living facility, business association and the Illinois Institute of Technology.

The results of the exercise suggest that the BCM—if fully leveraged—positively impacts community resiliency during long duration power outages as adverse impacts typically experienced during a power outage including health impacts on vulnerable populations are avoided. This, in turn, reduces pressure on emergency responders, who can allocate resources to other areas. Some benefits, including access to warming and cooling centers, can be extended to serve members of other communities.

Smart Meter Connected Devices

The ComEd Smart Meter Connected Devices ("SMCD") service is offered to ComEd residential customers. The SMCD service was launched in 2014 and enables customers to receive electricity usage and estimated electricity cost information from ComEd through a customer owned smart device that is wirelessly connected to the ComEd smart meter. With access to more information, customers can make educated decisions that help them better control their electricity use and save on electric bills.

Presently, ComEd has 1,405 smart devices that have been enrolled in the SMCD service by its customers. Due to a reallocation of funding resources in 2020, the SMCD service redirected its efforts away from marketing and towards automation to enhance efficiency

and provide a premier customer experience. The SMCD team provides ongoing smart device feedback to manufacturers to ensure our customers' needs are being met. AzTech, EnerGate, and Rainforest Automation are the manufacturers currently associated with the SMCD service.

A ComEd customer may enroll in the SMCD service by purchasing a compatible smart device directly from the manufacturer and registering the smart device on the ComEd.com website. The list of devices tested for compatibility can be found at comed.com/smcd. Once the registration is complete, SMCD's automation process will wirelessly connect the customer's smart device to the ComEd smart meter. There are a variety of smart devices with varying capabilities available to customers. They general fall into the following categories:

- **In-Home Displays ("IHDs"):** IHDs are user-friendly tabletop, smart devices that provide customers with the ability to monitor their costs and energy usage patterns that are streamed to the IHD from the ComEd smart meter. IHDs display estimated electricity costs (Price * Usage) based on the fixed-price electricity supply rate from ComEd or other electric suppliers.
- **Smart Thermostat – (Zigbee Enabled):** More than just a thermostat, these smart devices feature Wi-Fi connectivity to the Internet. Features for these smart devices may include programmability to adjust temperature, display of energy usage, interactive mobile apps, web portal and live weather updates. This controllable thermostat communicates wirelessly with a ComEd smart meter and the Internet.

Smart Thermostat Program

ComEd submitted a tariff to the ICC on March 25, 2016, for a program supporting smart thermostats as part of ComEd's Central Air Conditioning ("AC") Cycling Program (i.e., Rider AC). The tariff went into effect on May 9, 2016. ComEd customers in the program can earn up to $40 during the summer (i.e., June 1 through September 30 of each year) by allowing ComEd to adjust the temperature of the customer-owned smart thermostat. Customers in the program can participate using a Nest smart thermostat.

The smart thermostat program allows ComEd to leverage smart thermostat products as devices for residential demand response, to enhance customer experience and engagement, and introduces a channel for customers to obtain innovative technologies that help them use less electricity when it is most in demand.

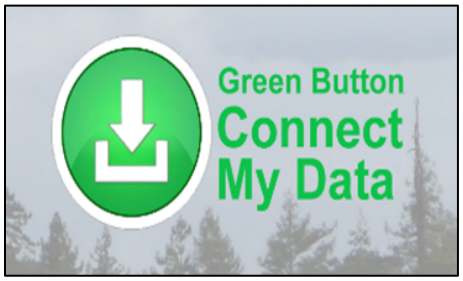
Effective November 7, 2020, ComEd's AC Cycling - Smart thermostat program option will no longer be offered. The ICC approved the decommissioning of this program due to significant cost increases resulting from a paradigm change imposed by Google-Nest to eliminate the utility-facing portal.

Approximately 38,000 customers and key stakeholders were notified of the programs' sunset and encouraged to explore other energy saving offerings available through ComEd.com. This is the last report on this project and starting 1Q 2021 this section would be removed from the report.

Green Button Connect My Data

In May 2015, ComEd partnered with Schneider Electric to deploy Green Button Connect My Data in northern Illinois. Green Button is an industry initiative stemming from a White House call to action for utilities to voluntarily provide customers with easy access to their energy usage in a secure and user-friendly electronic format. ComEd is among the first utilities to introduce Green Button Connect My Data, which allows customers to authorize third-party service providers to receive direct access to their energy usage analytics via the Green Button functionality. To help customers maximize energy savings via the Green Button Connect My Data functionality, ComEd offered Energy Insights Online, a free web-based energy analysis service that interfaces with Green Button. Energy Insights Online provided ComEd's commercial customers a more detailed analysis of their building's energy usage. It also enabled third-party vendors, such as Schneider Electric, to provide automated monitoring-based commissioning ("aMBCx") technology with embedded fault detection and diagnostics ("FDD") analytics that accurately prioritize energy savings opportunities.

The ability to transfer this data more seamlessly to third-party developers will help accelerate technology applications and analytics leveraging smart meter data. ComEd integrated the Green Button Connect functionality for its Commercial & Industrial customers in spring 2015. Green Button Connect was successfully deployed for residential customers in December of 2015 and was made available to the public in



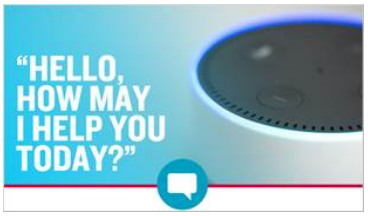
spring 2016. ComEd currently has three third-party vendors registered and is working with 12 others who are in various stages of enrollment.

IFTTT

In May 2017, ComEd launched its first Internet of Things ("IoT") program enhancement through a partnership with IFTTT (If This Then That). IFTTT offers an IoT workflow management tool that connects multiple systems together through an easy to use interface. ComEd launched two separate channels through IFTTT, one for Residential Hourly Pricing program customers to automatically based on custom price signals and one for Peak Time Savings customers to be able to react to Peak Time Savings Hours automatically. Between the Peak Time Savings and Hourly Pricing Channel, more than 6,200 customers were connected and completed over 3,700,000 transactions. In 2021, ComEd plans to release an enhancement to this solution that will allow customers to connect to their Comed.com account from IFTTT to receive more personalized functionality.

Chatbot Program

Since 2018, ComEd has offered a new way for customers to check their balance, report



an outage, get outage status updates, and receive energy usage information through its voice activated chatbot program. Customers who have smart home devices like Amazon Alexa or Google Home and Assistant can install ComEd chatbot skills to their device. Once these skills are downloaded to their respective devices, customers can

then interact with chatbot whenever they would like. With the launch of our authentication pilot in December 2018, customers can simply log in to their My Account once and create a personalized experience through our chatbot program for each individual. Additional information about the program is available by visiting ComEd.com/Chatbot. As of the end of 2019, ComEd met our pilot success metrics and criteria to retain 2,000 customers with an 80% customer satisfaction score on the voice activated chatbots for Google and Alexa. Through this pilot program, we were able to gain customer insights into how customers interact with natural language processing via an artificial intelligent ("AI") bot. We applied those learnings and shifted our focus to apply AI to a web-based chat.

On December 12, 2019, eChannels deployed a Web AI Digital Bot to ComEd.com. On March 26, 2020, eChannels released additional features for the AI Digital Bot project. Customers can now perform the following transactions within the chatbot; Pay Bill, View Balance, Download Bill PDF, Enroll in Budget Billing, and Report Outage/Check Outage Status. The March release also added the Live Chat feature into the Bot. Customers with questions that the AI portion of the Bot can't answer can transfer to a human within the same chat interface. The employee can view the customer's chat log and account information if the customer is logged in to their My Account.

Since launched in December 2019, over 53,000 customer chats with the AI Digital Bot have occurred. Since the March release, over 3,300 transactions have been completed through the AI Digital Bot and customers have engaged in over 3,200 live chats.

In 2020, ComEd deployed release 3 of the AI Digital Bot. This release significantly expanded the number of transactional features available within the Bot, including additional bill payment features, bill download options, account/profile management,

program and notification enrollment, payment assistance enrollment, and stop service orders. This release also implemented a feature which allows customers to continue conversations even if they navigate to a new page mid-chat. Finally, this release deployed the Bot to all pages on ComEd.com, which has significantly increased customer engagements with the Bot. Since deployment of release 3, the Bot has averaged over 500 customer chats a day and roughly 40 transactions a day

V.Smart Grid Collaboration

ComEd recognizes that great innovations come from engaging forward-thinking individuals with a broad diversity of perspectives, experiences, and expertise. That's why ComEd is forging key relationships with industry leaders, technology accelerators, universities and others, to further encourage the development of new and innovative grid-related products and services by entrepreneurs. Following are a few examples of key collaborative relationships and events that ComEd has established to seek out and celebrate innovation.

Energy Foundry

In addition to providing an initial funding investment, ComEd continues to support the Energy Foundry in its mission to foster innovative new grid-related and energy-related products and services. The pipeline continues to be robust, with applications received that span across a diverse range of business sectors and development stages such as gas, water, energy storage, transportation, generation, power electronics, building technology and infrastructure. Leadership at the Energy Foundry has developed the selection criteria to help entrepreneurs achieve their highest goals and an investment model to accelerate speed to market for promising energy ideas. To date, the Energy Foundry has made 18 investments and had four successful exits.

Select Investment Activities

- **Bractlet:** A software sensor and analytic platform that allows large energy service companies to efficiently and continuously measure the savings of energy efficiency retrofits.
- **Intellihot**: A tank-less water heater that targets the commercial market (i.e., hotels, restaurants). Achieves savings in energy and installation costs, while enhancing reliability. They have a development path that includes combined heat and power.
- **InVekTek**: A Chicago-based company that licensed Georgia Tech motion control technology for industrial drives, improving operational efficiency, increasing useful life, and reducing energy waste.
- **RedWave Energy**: Developing an advanced technology to capture low-grade waste heat from thermal power plant and industrial processes.
- **Nanograf**: An early stage advanced materials company developing the next generation of lithium-ion batteries, with a core focus on silicon-graphene anode technology.
- **Tank Utility**: A wireless monitoring solution for residential and industrial heating fuel tanks that allows small and medium sized heating fuel distributors to more efficiently serve customers and optimize deliveries.
- **Recurve**: Leading data scientists and energy policy experts formed Recurve to perform cost-effective, near real-time M&V on utility efficiency programs with the long-term goal of acting as a uniform platform for pay for performance utility efficiency programs.

- **Omndian:** An end-to-end residential solar asset management company that leverages a proprietary software platform to provide system monitoring, outsource field service management, performance guarantees and an insurance wrap option from a large 3rd party insurance company.
- **Polysyvert:** A novel, low-temperature, dissolution-based technology for recycling polystyrene which solves an important global challenge in waste plastics and drives a unique platform for polystyrene recycling to reach scale.
- **FLEx Lighting** (Note: FLEx Lighting has been **rebranded as Azum** and will be referred to as Azum going forward)**:** A Chicago-based advanced material company with a novel, low cost, transparent light film that when embedded into the displays of electronics, requires 80% fewer LEDs, and leads to 90% less energy consumed compared to backlit and OLED systems.
- **Span:** A smart electrical panel that integrates distributed energy and enables grid integration with home energy systems.
- **Sistine Solar:** A low-cost solution that transforms any solar panel into one that blends in with the roof, no matter what color, style or pattern.
- **e-Zinc:** a zinc-based energy storage technology for safe, affordable, long duration energy storage for grid integration of renewables and resiliency applications.
- **Network Perception:** A Chicago-based cyber security company that protects critical infrastructure with a complete view of corporate and utility network security, and makes it easy to comply with best practices and regulatory standards.

CSMART Laboratory at IIT

Built with the support of IIT, ComEd, Itron Networked Solutions and West Monroe Partners, CSMARTwas one of the first of its kind to bring together academic, industry and utility experts to provide a fully functional test environment for smart grid and smart city technologies.

CSMART provided the platform to conduct a wide range of smart grid and smart city R&D analysis projects. A video highlighting CSMART's state-of-the-art technology initiatives is available on ComEd's Powering Lives Network. All pilot projects at the CSMART Laboratory have concluded and the learnings from each project have been used in ComEd's current projects. Therefore, there will not be any further updates on CMSART in the Test Bed report starting Q1 2021.

Some of the initial demos included:

- **Cyber-security Evaluation of the IIT Smart Streetlight Project**: Conducted a complete cyber-security evaluation of the prototype system currently installed in the CSMART lab to discover potential vulnerabilities in the smart streetlight system and investigating means to eliminate or mitigate them.
- **Data analytics and real time interactive dashboard**: Smart-grid communications networks are used to monitor operations and collect data from throughout IIT's electric microgrid in order to optimize electrical efficiency of the system and predict faults prior to their occurrence.

- **OSIsoft Asset Framework ("AF") Template Project:** Creating a Common Interface Model ("CIM") for the campus microgrid including solar, battery storage, Cogeneration, wind, as well as relay and protection. This model will serve as an input to a CIM translator into OSIsoft's hierarchical data management software. The CIM translator has the added benefit of automatically creating PI tags (data points in the PI system) which removes many man-hours of configuration.

- **UFARM Campus Community Garden:** Initiated by the IIT chapter of *Engineers for a Sustainable World,* this facility is a test-bed for the development of urban agricultural technology. Current projects are heavily focused on networked monitoring and intelligent irrigation controls.

- **Microgrid SCADA:** Utilizing General Electric's (GE) SCADA software, formerly Alstom software, and existing Itron Networked Solutions' devices this tool will be used in parallel with production controls and monitoring to establish control of edge devices (Smart Streetlights initially) and a development environment for microgrid specific SCADA.

- **Sensor Pilots:** Various smart city sensor project ideas are being evaluated in order to arrive at a subset of validated problem statements and project plans for testing and deploying sensors around campus. Current deployed sensors include air quality, traffic/parking monitor, smart lighting pedestrian monitor, and gunshot detection. Sensors being evaluated and planned for deployment are dumpster monitoring, agricultural monitoring and pavement temperature monitoring. These sensors communicate on the IIT Itron network to gather data collected from the field.

SmartGridExchange™

The mission of the SmartGridExchange™ ("SGE") was to discover, seek out, foster, and execute pilots and innovative products and relationships. This collaborative initiative between ComEd, entrepreneurs, technology start-ups, universities and customers sought to explore and shape new products, offers and innovative solutions that utilized the intelligence and benefits of the smart grid. Through the SmartGridExchange™, ComEd was starting the process of co-designing the future of electricity with companies interested in developing smart grid-enabled products and services. These included enabling third parties to develop new products and services that leveraged the smart grid investments ComEd was already making; working with select developers who brought demonstrated value to customers; and giving customers a convenient portal from which they could learn about new and developing energy products and services.

In addition to the Smart Thermostats Program, Green Button Connect My Data, IFTTT and other programs detailed in the previous section, through ongoing market scans and ideation sessions, the SmartGridExchange™ became the birthplace of multiple new technology demonstrations, and collaborations, including Smart Meter Connected Devices, Bidgely, and Nest Learning Thermostat™.

The SmartGridExchange™ initiative continued to introduce, vet, and advance new ideas and potential pilots while continuing to deploy existing in-market initiatives and programs. The SGE Team continued biweekly market assessments of industry developments and identified products and solutions with potential for piloting or collaboration under SGE. New technologies that were vetted were continuously added to the SGE initiative pipeline to monitor, evaluate, and charter new initiatives and pilots. The SGE team met with

vendors and program managers on regular basis to explore, discuss, and structure potential pilot program design. The SGE Team worked on securing which projects would be developed and implemented in the future. This program has concluded and there will not be any further updates for this program in 2021.

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Smart Grid Advanced Metering Annual Implementation Progress Report

ATTACHMENT 4

Industry & Customer Research: Non-Utility Owned Storage Units

March 24, 2021

Industry & Customer Research

Energy Storage Market Assessment

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ENERGY STORAGE ASSESSMENT BACKGROUND

The Energy Storage Assessment conducts primary & secondary research to satisfy AIPR requirements.

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Background

- As part of the Energy Infrastructure Modernization Act, ComEd is required to submit an Annual Implementation Progress Report (AIPR) that includes an overview of the annual energy storage uptake within its utility service territory. The assessment conducts both primary and secondary research on the energy storage industry with an Illinois focus. The AIPR reports summarize the activities & achievements accomplished in the year and the activities & goals planned for the following year in the areas of AMI Operational Deployment, Customer Applications, Customer Outreach and Education, and Metrics and Milestones. This Energy Storage Assessment fulfills AIPR metric number 15C

Methodology

- The 2021 energy storage assessment uses the most recent data available to determine energy storage calculations. Unless indicated, GlobalData & Wood Mackenzie databases were utilized to determine energy storage capacity. The GlobalData database was used for calculations for operational capacity and the Wood Mackenzie database was used for calculations for announced / planned / under construction capacity
- To provide a wholistic perspective of energy storage projects at the time of the report, calculations utilize a complete snapshot of all projects with operational, announced, planned, and under construction statuses indicated at the time of the data pulls (January 2021). Please note that this methodology differs from earlier reports as calculations represent all energy storage projects tracked in 2020 and not the marginal change from the previous year

Source: Global Data, Wood Mackenzie, Accenture Research

EXECUTIVE SUMMARY

Illinois storage activity has increased in 2020 while the U.S. and global markets continue to grow.

Perspective on Illinois Energy Storage Market

- Traditionally a 'gas peaker plant' state, Illinois has not been the primary focus of energy storage providers due to unfavorable regulation and market participation rules in PJM (frequency regulation benefits factor and signal changes, capacity market 10-hour duration requirement, Minimum Offer Pricing Rule[1]) in addition to low energy prices, demand charges, and on- to off-peak pricing spreads
- However, several clean energy bills ("Path to 100," "Clean Energy Jobs Act," and "Coal to Solar and Storage Act") were introduced in 2019 to help close funding gaps en route to meeting Illinois' "25% by 2025" renewable portfolio standard (RPS), though all are still awaiting a decision from the Illinois General Assembly. In February 2020, the Downstate Clean Energy Affordability Act was introduced, with much less aggressive energy targets for 2030
- In August 2020, Governor Pritzker unveiled a 100% clean energy plan with a set of eight principles to guide energy reform in Illinois, closely aligning to goals in "Path to 100"
- In February 2021, SB 1792 ("Energy Storage Systems") was sent to the governor after being passed in both Houses, calling for a cost-benefit analysis of energy storage technology in Illinois
- With a push for clean energy and storage, the Illinois energy storage market increased in 2020. The operational Illinois storage market had a capacity of 325 MW (31 total projects with an operational status) by end of 2020. Illinois' planned capacity was a total of 3.5 GW (59 total projects with an announced / planned / under construction status) by end of 2020

Perspective on Overall Energy Storage Market

- By the end of 2020, 151 GW of storage projects were indicated as announced / planned / under construction globally. In the U.S., planned capacity nearly doubled with 137 GW with an announced / planned / under construction status by the end of 2020
- Annual U.S. storage deployments are expected to grow to 26.5 GWh by 2025 with a large jump of 3.8x in 2021 driven primarily by utility-scale projects. Increased demand for longer duration will drive 8.8x U.S. market growth compared to 2020
- With a current focus on electric vehicle R&D, short duration, high power projects, lithium-ion has been the technology of choice for most new deployments. Some vendors feel that there will be a shift to projects with longer duration in the next 3-5 years, but many still believe that Li-ion will be the dominant technology

1. FERC's Minimum Offer Price Rule, or MOPR, calls for PJM to set minimum bids for state-subsidized electricity generators in those auctions
Source: Global Data, Wood Mackenzie, Accenture Research

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RESEARCH APPROACH

The following approach and timeline were used for the energy storage market assessment.

Perform Market Assessment & Primary Research
1/28/21 – 2/10/21

Communicate Findings
2/10/21 – 2/19/21

Market & Industry Assessment	Primary Research & Analysis	Review with Key Internal Stakeholders
Confirm ComEd Objectives ▪ Identify key aspects of Energy Storage Systems ▪ Gather details on ComEd service territory	**Prepare Primary Research:** ▪ Identify vendors and contacts ▪ Develop primary research approach/ questions	**Stakeholder Buy-In:** ▪ Detailed review of identified findings with key stakeholders
Assess Industry / Market: ▪ Identify key industry trends ▪ Update energy storage technology options ▪ Provide forward-looking projections ▪ Conduct secondary research ▪ Highlight key changes in 2020	**Conduct Primary Research:** ▪ Interview 10+ energy storage vendors ▪ Synthesize findings from industry / market scans, secondary customer research, and primary research to identify key elements of storage implementation	**Final Messaging:** ▪ Update the findings in line with comments from key stakeholders ▪ Organize and prepare findings for legal / regulatory compliance

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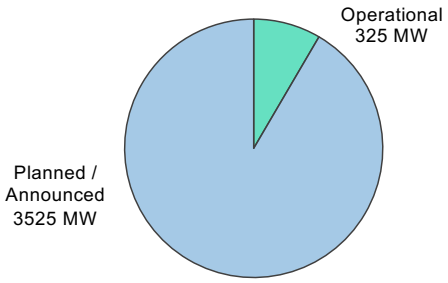
ILLINOIS NON-UTILITY OWNED ENERGY STORAGE

Illinois ranks highly in the U.S. for total operational storage capacity with significant plans to increase storage in the future.

2020 Illinois Energy Storage Capacity[1,2]

Storage Capacity (MW)



Current Rankings of Illinois Energy Storage[1,2]

Illinois is **3rd** in the U.S.
for total operational storage capacity

Illinois is **10th** in the U.S.
for total planned / announced storage capacity

Snapshot of Illinois 2020 Energy Storage Market Activity[3]

NOT EXHAUSTIVE

Project Name	Year Announced	Recent Activity
PJM-AB2-132	2016	Facility study in progress
Magid Glove	2018	Permission to operate 2021
Convergence Projects (3)	2019	Planned
PJM-AF1-060	2019	Facility study in progress
PJM-AG1-044	2020	Announced & WMPA executed
MISO Projects (12)	2020	Announced
PJM Projects (34)	2020	Announced
Ford: Cont. Energy Sol. (2)	2020	Announced

Key Applications of Operational Illinois Energy Storage[2]

Service	% of Rated Power
Ancillary Services / Frequency Regulation	98.7%
Electric Bill Management	0.9%
Back Up / On-Site Power	0.2%
Electric Supply Capacity	0.1%
Microgrid Capability	0.1%

81% of operational Illinois capacity is **Lithium-Ion**

PJM is the most mature market in the nation for frequency regulation

The concentration of lithium-ion technology makes sense for a frequency regulation heavy market because of the focus on power over energy

1. Announced/planned data taken from Wood Mackenzie (snapshot of status as of 2020)
2. Operational data taken from Global Data (snapshot of status as of 2020)
3. 2020 activity based on guidance from ComEd

Source: Global Data, Wood Mackenzie, ComEd, Accenture Interviews

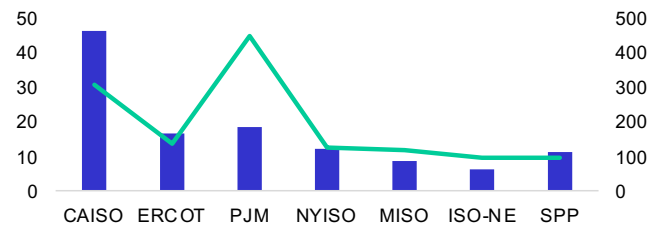
PJM & MISO MARKETS

PJM has a high number of planned energy storage projects despite uncertainties related to the pandemic and shifting regulations at the federal level.

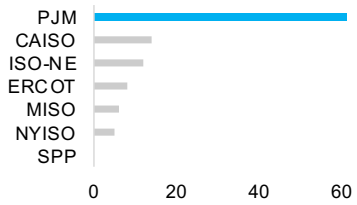
PJM & MISO Market Overview

PJM lags behind CAISO in planned energy storage capacity; however, it remains the most mature frequency regulation market with a high number of projects announced

Storage Projects Announced/Planned (as of Feb. 2021)[1]



Number of Operational Frequency Regulation Storage Projects (as of Feb. 2021)[2]



Updates in Federal Policy

Oct '19 FERC Order 841: FERC gives PJM green light to implement its energy storage proposals with investigation of PJM's proposed minimum run-time rules underway

Apr '20 FERC Order 841: Committee requires PJM to submit tariff provisions reflecting its minimum run-time rules. PJM requests postponement until early 2021, so it can pursue capacity market reforms (i.e. ELCC)

Oct '20 ELCC: PJM proposes reform of its capacity market accreditation for energy storage by implementing ELCC for 2023/2024 delivery year

Oct '20 FERC Order 841: MISO submits compliance that revises its tariff to establish a participation model

2020 — 2021

Jul '20 FERC Order 841: Federal appeals court upholds FERC Order 841

Jul '20 Hybrid: FERC holds technical conference on hybrid resources, raising prospect of a rulemaking

Sep '20 FERC Order 2222: Order is introduced, opening up capacity, ancillary services, and energy markets to BTM storage, which will generate market upside starting in 2025

December '20 Relief Package: Congress passes package with significant spend allocated to renewables, including ITC for solar (not standalone storage) & R&D funding ($71m per year for storage R&D via the BEST Act)

1. Announced/planned data taken from Wood Mackenzie (snapshot of status as of 2020)
2. Operational data taken from Global Data (snapshot of status as of 2020)
Source: Global Data, Wood Mackenzie, Accenture Research

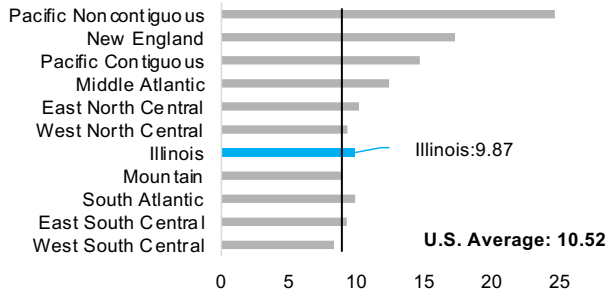
CHALLENGES TO STORAGE GROWTH IN ILLINOIS

Illinois' low cost of energy and policy progress dictate growth in the energy storage market.

Low Energy Prices

Illinois energy prices are **6.2% less** than the U.S. average and are significantly lower than the Pacific Noncontiguous (AK, HI) and New England regions. Illinois ranks **24th** for state energy prices

Average Electricity Prices for all Sectors (Cents/kWh)[1]



Illinois has a lower maximum demand charge than California which is a leader in the FTM & BTM energy storage markets

Demand Charges by State[2]

State	Max Demand Charge	Avg Demand Charge
CA	$22.84	$9.53
IL	**$20.37**	**$9.87**
NY	$19.71	$5.71
HI	$18.88	$14.92
OH	$17.79	$7.28
FL	$12.82	$6.99

Illinois Policy and Incentives

With Illinois' renewable energy target of "25% by 2025" in the near horizon, various policies have been proposed though progress has been slow. Three key bills introduced in 2019, the "Path to 100", the "Clean Energy Jobs Act," & the "Coal to Solar and Energy Storage Act," have stalled in the General Assembly. In February 2020, the Downstate Clean Energy Affordability Act was introduced, with a renewable energy target of 32.5% by 2030 — much less aggressive than the 100% by 2030 targets in the 2019 bills. In August 2020, Governor Pritzker unveiled a 100% clean energy plan with a set of eight principles to guide energy reform in Illinois. The document outlines an approach to expanding renewable energy that aligns closely with the goals of "Path to 100." In February 2021, SB 1792 (amendment to the Public Utilities Act) was sent to the governor after being passed in both Houses, calling for a cost-benefit analysis of energy storage technology in Illinois

1. Sectors include residential, commercial, industrial, and transportation. Data is an average of prices in Oct. 2019 and Oct. 2020
2. Demand charges extracted from OpenEI
Source: U.S. Energy Information Administration, OpenEI, Accenture Research

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ILLINOIS ENERGY STORAGE MARKET ACTIVITY (1 of 4)

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Updates to the 2021 report include: Non-utility owned projects that have been Interconnect Completed in 2020 or are in the active queue in early 2021.

	PJM-AB2-132	Magid Glove	Convergence Energy - Project 1
Location	Lee, Illinois	Romeoville, Illinois	Bolingbrook, Illinois
Technology	• Electro-chemical technology of 625 kW	• 2 Individual Interconnections of 980kW each • Tesla Power Pack	• 2 MW of solar, 2 MW of energy storage (flow battery), 2 MW gas generator, and a potential flywheel
Asset Stakeholders	• N/A	• Convergence Energy was the System Integrator • Magid Glove will own the asset • Continental Electrical Construction Co designing the storage system	• Customer-Owned System • System Integrator: Convergence Energy
Key Use Cases	• Participating in PJM • Capacity / Wind	• 2 Separate Meters required for each interconnection • Participating in PJM	• Behind-the-meter • Bill management, peak load shaving • Uninterruptible power supply (flywheel) • Will participate in PJM's wholesale markets (ancillary services)
Timeline / Status	• 2016: Interconnect application submitted • 2020: Facility study in progress as of 2/9/2021	• 2018: Interconnect application submitted with payment • 2019: Facilities study pending for first 980 kW, Application withdrawn for second 980 kW • 2020: ComEd permission to operate 980 kW • 2021: Commissioning year	• 2019: Interconnect application submitted • 2020: Planned, Commissioning year delay

Source: ComEd, Wood Mackenzie, PJM / MISO Interconnection Queue, Accenture Interviews

NOT EXHAUSTIVE

ILLINOIS ENERGY STORAGE MARKET ACTIVITY (2 of 4)

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Updates to the 2021 report include: Non-utility owned projects that have been Interconnect Completed in 2020 or are in the active queue in early 2021.

	Convergence Energy - Project 2	Convergence Energy - Project 3	PJM-AF1-060
Location	Glenview, Illinois	Skokie, Illinois	Stephenson, Illinois
Technology	• 860 kW solar array paired with a 1 MW lithium-ion battery	• 1.2 MW solar array paired with a 1 MW lithium-ion battery	• Electro-chemical battery of 10.3 MW
Asset Stakeholders	• 3rd-party-owned system • System Integrator: Convergence Energy	• 3rd-party-owned system • System Integrator: Convergence Energy	• N/A
Key Use Cases	• Behind-the-meter • Bill management • Will participate in PJM's wholesale markets (ancillary services)	• Behind-the-meter • Bill management • Will participate in PJM's wholesale markets (ancillary services)	• Capacity • Participating in PJM
Timeline / Status	• 2019: Interconnect application submitted • 2020: Planned, Commissioning year delay	• 2019: Interconnect application submitted • 2020: Planned, Commissioning year delay	• 2019: Interconnect application submitted • 2020: Facility study in progress as of 2/9/2021

Source: ComEd, Wood Mackenzie, PJM / MISO Interconnection Queue, Accenture Interviews

NOT EXHAUSTIVE

ILLINOIS ENERGY STORAGE MARKET ACTIVITY (3 of 4)

ComEd
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Updates to the 2021 report include: Non-utility owned projects that have been Interconnect Completed in 2020 or are in the active queue in early 2021.

	PJM-AG1-044	MISO Projects (12)	PJM Projects (34)
Location	Whiteside, Illinois	Illinois	Illinois
Technology	• Electro-chemical battery of 500 kW	• Total capacity of 1.1 GW • Battery between 20 MW – 409 MW	• Total capacity of 2.0 GW • Electro-chemical battery of 500 kW – 500 MW
Asset Stakeholders	• N/A	• N/A	• N/A
Key Use Cases	• Energy • Participating in PJM	• Participating in MISO	• Participating in PJM
Timeline / Status	• 2020: Interconnect application submitted • 2021: WMPA executed 1/26/21, Commissioning year	• 2020: Interconnect application submitted • 2020-2024: Commissioning year	• 2020: Interconnect application submitted • 2021-2024: Commissioning year

Source: ComEd, Wood Mackenzie, PJM / MISO Interconnection Queue, Accenture Interviews

ILLINOIS ENERGY STORAGE MARKET ACTIVITY (4 of 4)

NOT EXHAUSTIVE

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Updates to the 2021 report include: Non-utility owned projects that have been Interconnect Completed in 2020 or are in the active queue in early 2021.

	Ford: Continental Energy Solutions (2)
Location	Chicago Heights, Illinois
Technology	• Electro-chemical battery of 4.2 MW & 2.1 MW
Asset Stakeholders	• N/A
Key Use Cases	• Behind-the-meter • Frequency regulation • Participating in PJM
Timeline / Status	• 2020: Interconnect application submitted • 2021: Commissioning year

Source: ComEd, Wood Mackenzie, PJM / MISO Interconnection Queue, Accenture Interviews

ILLINOIS VENDOR LANDSCAPE

A diverse set of vendors span the entire storage value chain, often playing multiple roles.[1]

Supply — **Develop** — **Operate**

Technology		Power Electronics		EPC		System Integrator		Developer		Owner		O&M	
BYD Co Ltd	2015	AllCell Technologies LLC	2013	Blattner Energy Inc	2014	City Cottage Group	2012	Ameren Corp	2015	Abt Electronics	2018	Caterpillar Inc	2003
Calnetix Technologies LLC	2012	CALMAC	2012	Ice Energy	2013	Convergence Energy	2018	EDF Renewables Inc	2015	Ameren Illinois Co	2017	Continental Electrical Construction	2020
Doosan Fuel Cell America Inc	2015	EnSync Inc	2012	Leclanche SA	2018	Energport	2019	GlidePath Power LLC	2015	Caterpillar Inc	2003	EDF Renewables Inc	2015
EaglePicher Corporation	2016	Greensmith Energy Management Systems LLC	2018	Renewable Energy Systems Holdings Ltd	2015	Greensmith Energy Management Systems LLC	2014	Ice Energy	2013	Commonwealth Edison Company	2020	Ice Energy	2013
EnSync Inc	2012	S&C Electric Co	2014			Ice Energy	2013	Invenergy LLC	2016	EaglePicher Corporation	2016	ViZn Energy Systems Inc	2020
FuelCell Energy Inc	2003	Schneider Electric	2016			Intelligent Generation LLC	2014	Renewable Energy Systems Americas Inc	2015	EDF Renewables Inc	2015		
Ice Energy	2013	Sinexel	2019			Renewable Energy Systems Americas Inc	2015	RES Americas Construction Inc	2015	Follett Higher Education Group	2012		
FuelCell Energy Inc	2003	ViZn Energy Systems Inc	2020			S&C Electric Co	2017	S&C Electric Co	2017	I-GO Alternative Transportation For Chicagoland Inc	**2013**		
Leclanche SA	2018	Younicos GmbH	2013			Schneider Electric	2016	Windfree Inc.	2013	Illinois Institute of Technology	2012		
LG Chem Ltd	2014					ViZn Energy Systems Inc	2020			Invenergy LLC	2013		
Lockheed Martin Corp	2021									Lewis & Clark	2015		
NETenergy	N/A									Lincoln National Life Insurance Company	2015		
S&C Electric Co	2017									Magid Glove	2020		
Sinexel	2019									NextEra Energy Resources LLC	2014		
Sonnen	2019									Prudential Capital Group LP	2015		
Tesla Inc	2018									S&C Electric Co	2014		
ViZn Energy Systems Inc	2020									Southern Illinois University	2020		
Younicos GmbH	2013									Swiss Green Electricity Management Group SA	2018		
										UL LLC	2012		
										Younicos GmbH	2013		

Legend

Blue indicates Illinois Headquarters

Year represents entry into Illinois market (commissioning year)

1. List includes active companies that either operate in or have an office in Illinois

Source: Global Data, Wood Mackenzie Research, Accenture Research

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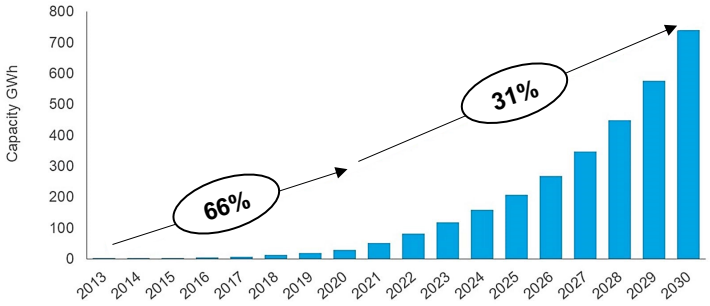
5 GLOSSARY

OVERALL ENERGY STORAGE GROWTH

Energy storage is projected to grow exponentially in both global and U.S. markets.

Global Cumulative Energy Storage Deployment

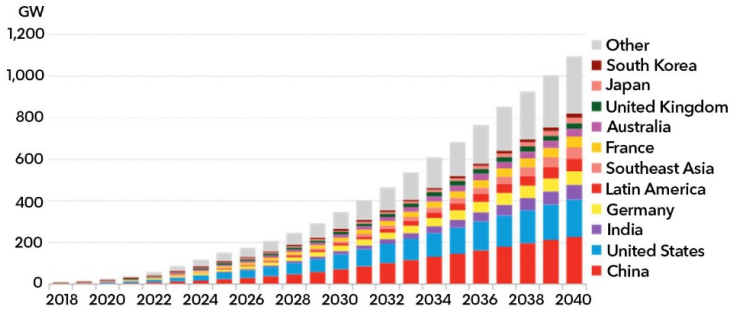


Source: Wood Mackenzie

The global energy storage market is expected to grow at a CAGR of 31%, despite a decline in expected deployments in 2020 from COVID-19. Front-of-the-meter will dominate annual deployments with growth accelerating in the later half of the 2020s

U.S., China, South Korea, India, Germany, Latin America, Southeast Asia, France, Australia and the U.K. will be the leaders in energy storage over the next two decades. These ten markets will represent three quarters of the installed capacity by 2040

Global Cumulative Energy Storage Installations (By Country)[1]



Source: BloombergNEF

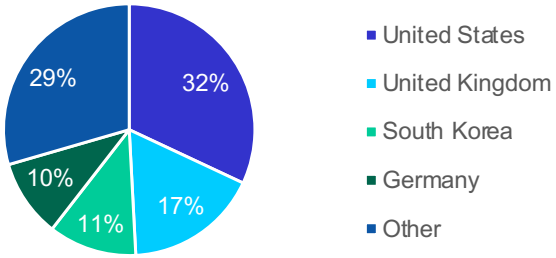
1. Chart taken from 2019 BloombergNEF report and does not include COVID impact in estimation
Source: BloombergNEF, Wood Mackenzie

2020 ADVANCED STORAGE PROJECT ACTIVITY

The United States leads in operational storage and has plans to increase capacity primarily using electro-chemical storage technology.

Advanced Storage Activity

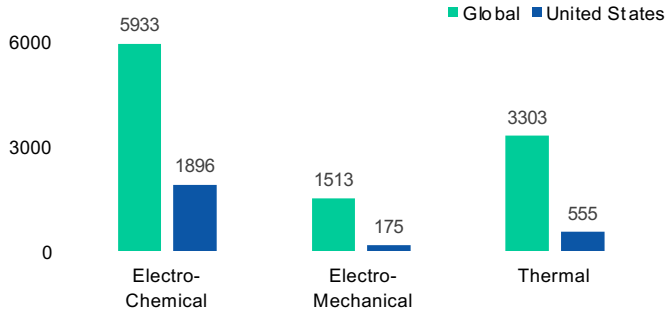
Electro-Chemical Projects Operational as of 2020 (By Country, by MW)[2]



The **United States** leads in global electro-chemical storage capacity with **1.9 GW** in operation. The U.S. has plans to significantly increase capacity with **95.4 GW** of announced & planned electro-chemical storage as of 2020[1]

Advanced Storage Technology

Advanced Storage Projects Operational as of 2020 (By MW)[2]



Electro-chemical technology dominates the operational storage market in 2020, nearly 2 times the global operational capacity as of 2019. Due to its low cost and high performance, **lithium-ion batteries** are driving electro-chemical energy to be the technology of choice globally

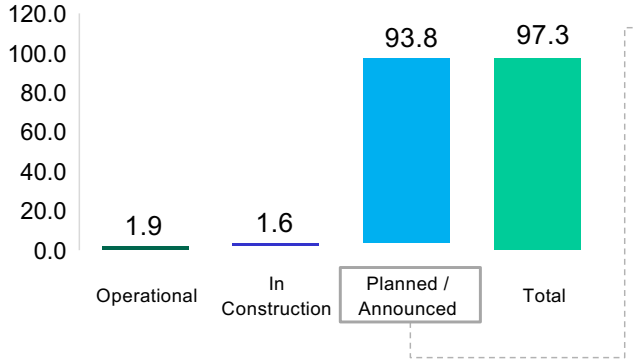
1. Announced/planned data taken from Wood Mackenzie (snapshot of status as of 2020)
2. Operational data taken from Global Data (snapshot of status as of 2020)
Source: Global Data, Wood Mackenzie, Accenture Research

U.S. ELECTRO-CHEMICAL STORAGE GROWTH

Lithium-ion batteries have contributed most to the growth of advanced energy storage, making up more than 98% of deployed projects in 2020.

Electro-Chemical Storage Capacity[1,2]

Total U.S. Electro-Chemical Storage Capacity (GW, as of Feb. 2021)



Of the operational electro-chemical projects, 75% are **lithium-ion** batteries, which account for more that 98% of 2020 deployments.

Planned / Announced Li-ion Projects

Rated Power	Number of Projects
<1 MW	5
1-10 MW	43
11-20 MW	17
21-30 MW	27
>30 MW	109

The average size for planned / announced lithium-ion projects is **60 MW**

Trends in Electro-Chemical Storage

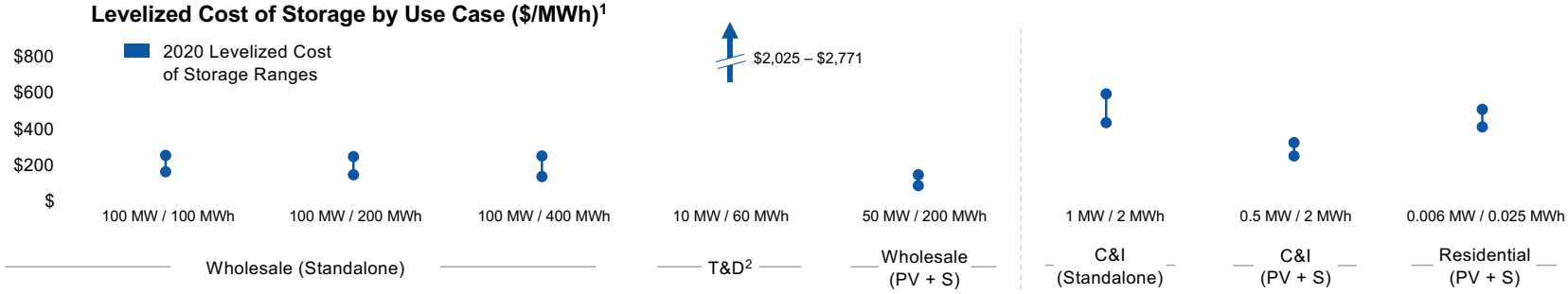
Lithium-ion energy storage technology is disrupting the industry, threatening peaker and traditional power plants' value. Due to its low cost, high performance, and strong R&D funding, large installations of lithium-ion batteries have begun replacing peaker plants in parts on the U.S., capitalizing on storage discharge power as needed when demand rises. In 2020, more than 98% of deployed projects utilized lithium-ion technology. As lithium-ion technology dominates the market, lithium ferro (iron) phosphate (LFP) is projected to be the leading chemistry in 2021, replacing nickel manganese cobalt (NMC). As a result of its lower energy density, LFP is a safer and longer-lasting option, discharging at a steady, sustained rate

1. Operational data taken from Global Data (snapshot of status as of 2020)
2. Announced/planned data taken from Wood Mackenzie (snapshot of status as of 2020)
Source: Global Data, Wood Mackenzie, GTM, Accenture Research

DECREASING STORAGE COSTS

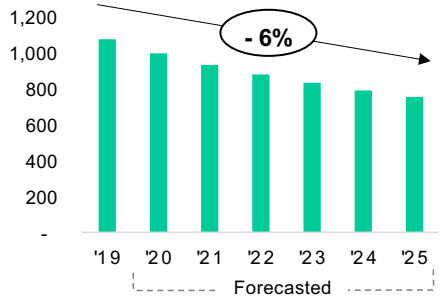
The cost of energy storage continues to decrease across FTM and BTM use cases, driven by Li-ion technology.

Levelized Cost of Storage by Use Case ($/MWh)[1]



Front-of-the-Meter

All-in FTM Li-ion Storage System Cost[3] ($/kW)



Storage Component Cost Projections ('19-'24)

Storage Component	Proj. 5 Yr Change in Cost	Proj. 5 Yr CAGR
Battery	(36%)	(7%)
Power Conversion System	(41%)	(9%)
Containerization	(23%)	(4%)
Software & Controls	(34%)	(7%)
EPC	(28%)	(5%)
Interconnection	(17%)	(3%)

Behind-the-Meter

Drivers for Cost Reduction

- Economies of scale from production volume increases
- Innovations in materials science (Li-ion driven by EV demand)
- Manufacturing and engineering standardization
- Shared infrastructure (e.g. inverters)
- Market pressure from increased competition
- Improvements in BMS, battery-level electronics and packaging
- Battery recycling and application for 2nd life batteries

1. Levelized cost use cases are described in the Glossary
2. T&D deferral use case is not directly comparable
3. Assumptions: 1 MW, 2 hours, LFP, Central Inverter, Containerized Enclosure

Source: Lazard 2020 Levelized Cost of Storage, Wood Mackenzie Energy Storage Monitor Quarterly Executive Briefings, '20

IN SERVICE U.S. ENERGY STORAGE PROJECTS

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While the majority of operational U.S. projects are electro-chemical, pumped hydro accounts for a much larger share of U.S. energy storage capacity.

U.S. Operational Advanced Energy Storage[1] (as of Feb. 2021)

Technology	Capacity (GW)	# Of Projects
Electro-Chemical	1.90	894
Thermal	0.56	122
Electro-Mechanical	0.17	32
Total	**2.63**	**1,048**

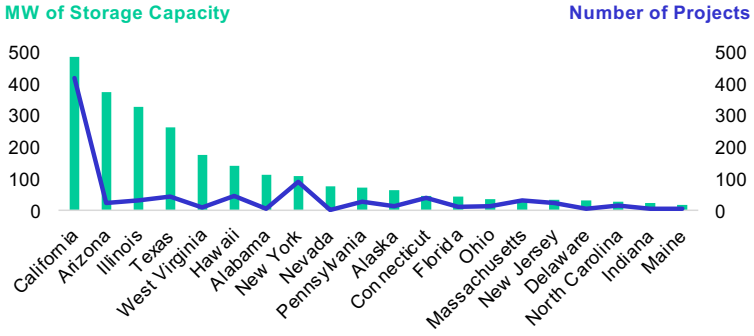
85% of U.S. advanced energy storage projects are **electro-chemical**

U.S. Operational Pumped Hydro Energy Storage[2] (as of Feb. 2021)

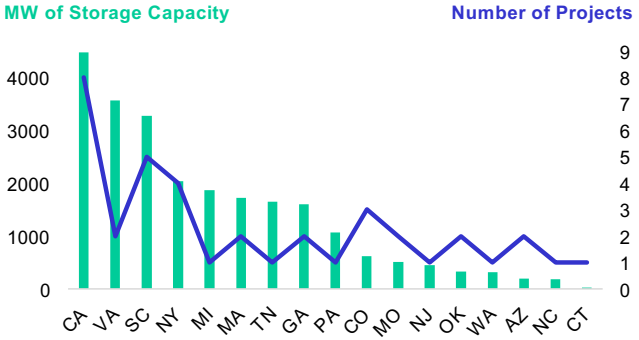
	Capacity (GW)	# Of Projects
Total	**23.9**	**39**

The operational storage capacity of U.S pumped hydro is **over 9 times** that of advanced energy storage

Operational Advanced Energy Storage[1] (as of Feb. 2021)



Operational Pumped Hydro Energy Storage[2] (as of Feb. 2021)



California leads the nation in number of storage projects and storage capacity, largely driven by the high price of energy and regulatory conditions. California claims 40% of advanced energy storage projects and 21% of pumped hydro projects

1. Operational data taken from Global Data (snapshot of status as of 2020)
2. Operational data taken from IHA tool
Source: Global Data, Wood Mackenzie, International Hydropower Association

GLOBAL ADVANCED STORAGE TECHNOLOGIES (1 of 3)

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Both mechanical & thermal energy storage had insignificant growth in operational capacity.

Mechanical **Thermal**

	Flywheel	Compressed Air	Gravitational Storage	Thermal	Liquid Air
Capacity in operation[1]	931 MW	642 MW	NA	3.3 GW	5 MW
# of projects[1]	41	19	NA	243	3 MW
Useful Life	10-30 years	1-35 years	20+ years	5 - 50 years	30+ years
Duration	Minutes - hours	Minutes – hours	Minutes - hours	Minutes – hours	Hours – months
Power Rating[1]	1 kW – 400 MW	80 kW – 321 MW	NA	2 MW – 500 MW	350 kW – 5 MW
Use Cases	Electric supply reserve capacity, resiliency, frequency regulation, voltage support	Electric supply capacity, energy time shift, frequency regulation	Energy time shift, grid stability	Renewable capacity firming, renewables energy tie shift, electric bill management, electric supply capacity	Energy applications – peak shaving, load leveling, etc.
Pros	High power density, scalable for short and long duration, high depth of discharge	Low cost, flexible size, matured technology, leverages existing gas turbine technology	Low cost, no external energy required, flexible size, high power capacity solution	Low cost, flexible size/scalable, leverages mature technology	Low technology risk, matured technological components, energy dense
Cons	Relatively low energy capacity, high heat generation, and sensitive to vibrations	Geographic limitation, difficult to modularize for small installations	Need lots of space & elevation change	Some technology is still pre-commercial, difficult to modularize for small installations	Process is only 25-50% efficient

1. Only includes projects that are in operation
Source: Global Data, DOE Energy Database, Wood Mackenzie Research, Greentech Media, AECOM Energy Study, Lazard, ARES North America, Energy Vault

GLOBAL ADVANCED STORAGE TECHNOLOGIES (2 of 3)

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Hydrogen storage activity increases as the number of operational projects increased by 6 times in 2020.

Electro-Chemical

	Zinc Air	Fuel Cell	Ultra capacitors	Superconducting Magnetic Coil	Hydrogen
Capacity in operation[1]	1 MW	304 MW	8 MW	R&D	44 MW
# of projects[1]	3	325	11	NA	146
Useful life	< 2 years	1-2 years	10-15 years	NA	3-20 years
Duration	Suited for applications of 4 hour discharge	Hours – months	Suited for 2-minutes or less power applications	Seconds	Minutes – hours
Power Rating[1]	0.3 MW – 1 MW	1 kW – 308 MW	28 kW – 4 MW	High Power	19kW – 6 MW
Use Cases	Energy applications – peak shaving, load leveling, etc.	On-site power, back up	Short recharging periods and many cycles per day (ex: ramp rate control)	Short recharging periods and many cycles per day (ex: ramp rate control)	Renewable capacity firming, renewables energy time shift
Pros	Very high energy density, light compared to sealed batteries lower cost, Non flammable	Response time almost zero, advantageous for combined heat and power apps, longer operating time compared to batteries, reliable	Very high power density, reliable, low maintenance, long lifetime, wide temperature range, very fast charge/ discharge	Very quick response time, high round-trip efficiency, very high power output, good for power quality control in manufacturing plants	High efficiency, no greenhouse gas emissions
Cons	Better suited for EVs and electronics, impacted by humidity, lower discharge efficiency	Lower efficiency, limited fueling infrastructure, expensive to produce	Low energy density and 10x larger than comparable battery, expensive, not as well known/ established in U.S. for battery applications	Reliability depends on an energy-intensive refrigeration system	Expensive extraction process, flammable, low energy density

1. Only includes projects that are in operation
Source: Global Data, DOE Energy Database, Wood Mackenzie Research, Greentech Media, AECOM Energy Study, Lazard, ARES North America, Energy Vault

GLOBAL ADVANCED STORAGE TECHNOLOGIES (3 of 3)

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Lithium-ion cells are the most popular electro-chemical storage technology as Lithium iron phosphate becomes the technology of choice for large projects.

Electro-Chemical

	Lithium-ion	Sodium Based	Lead-Acid	Flow Batteries	Nickel Based
Capacity in operation[1]	4.2 GW	379 MW	157 MW	60 MW	32 MW
# of projects[1]	1,156	96	134	123	15
Useful Life	6 months - 30 years	5-20 years	3-20 years	1-25 years	20-25 years
Duration	Minutes - hours	Minutes – days	Minutes – hours	Minutes - hours	Minutes – hours
Power Rating[1]	2 kW – 101 MW	10 kW – 108 MW	2 kW – 20 MW	3 kW – 15 MW	17 kW – 27 MW
Use Cases	Frequency regulation, renewables capacity firming, renewables energy time shift, resiliency, microgrid	Electric bill management, electric energy time shift, renewable energy integration	Electric energy time shift, renewable capacity firming, frequency regulation, voltage support	Renewables capacity firming, electric bill management, electric energy time shift, micro-grid capability	Distribution upgrade due to solar, electric supply capacity, renewables capacity firming, frequency regulation
Pros	Multiple chemistries, rapidly decreasing cost, efficient power and energy density	High temp. tech: mature, high energy capacity, long duration Cold tech.: emerging technology, low cost, potentially safer	Low capital cost, well-established, simple technology, high efficiency (80-90%)	Power and energy independently scalable, no degradation in energy storage	High power and energy densities, efficiency, improved longevity, performs well at low temp
Cons	Safety issues from overheating, requires advanced manufacturing capabilities	High cost, especially low temperature batteries (higher cost, lower efficiency), flammability issues for high temperatures	Limited service life, capacity decrease when high power is discharged, hazardous material, reliability issues	Relatively high system costs, reduced efficiency with rapid charge/discharge	Expensive, toxicity limits Nickel Cadmium to stationary application

1. Only includes projects that are in operation
Source: Global Data, DOE Energy Database, Wood Mackenzie Research, Greentech Media, AECOM Energy Study, Lazard, ARES North America, Energy Vault

FRONT-OF-THE-METER POLICY DEVELOPMENTS

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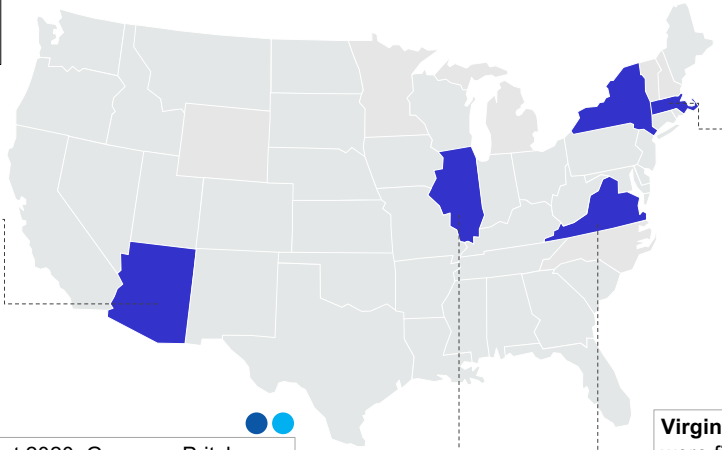
Regulations and incentives passed in 2020 will continue to advance front-of-the-meter storage.

Non-Exhaustive

Federal:
- In January 2021, the Biden administration suspended a May 2020 Trump administration executive order that placed restrictions on the use of equipment made by "foreign adversaries" in the U.S. bulk-power system
- With a new presidency, possible plans include 100% decarbonization by 2035 and a focus on energy storage research

PJM: In October 2020, PJM filed a proposal (for the 2023/2024 delivery year) with FERC reforming capacity accreditation for energy storage. It proposes implementation of an effective load-carrying capacity (ELCC) construct to value a resource's capacity capability



Massachusetts:
- In August 2020, MA codified its Clean Peak Energy Standard, designed to incentivize clean energy generation during high demand and catalyze the addition of storage. MA Department of Energy Resources issued a final rulemaking regulation for the Clean Peak Standard, including several changes benefiting energy storage. It also issued an emergency rulemaking for the SMART program with requirements for all solar systems >500 kW to have attached storage

Arizona: In November 2020, the Arizona Corporation Commission voted to require utilities to deliver 100% carbon-free electricity by 2050

Illinois: In August 2020, Governor Pritzker unveiled a 100% clean energy plan, further incentivizing community solar and facilitating the deployment of energy storage systems

Virginia: In November 2020, comments were filed requesting & proposing interim targets for energy storage, including permitting requirements for systems >1 MW

Legend
- Policy / Regulatory Directive
- Policy Incentive
- Market Rule Change
- Safety Rule Change

Source: Wood Mackenzie Energy Storage Monitor & Grid Edge Quarterly Executive Briefings, '20

FRONT-OF-THE-METER MARKET DEVELOPMENTS

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Market developments in 2020 feature storage inclusion in IRPs and substantial procurements.

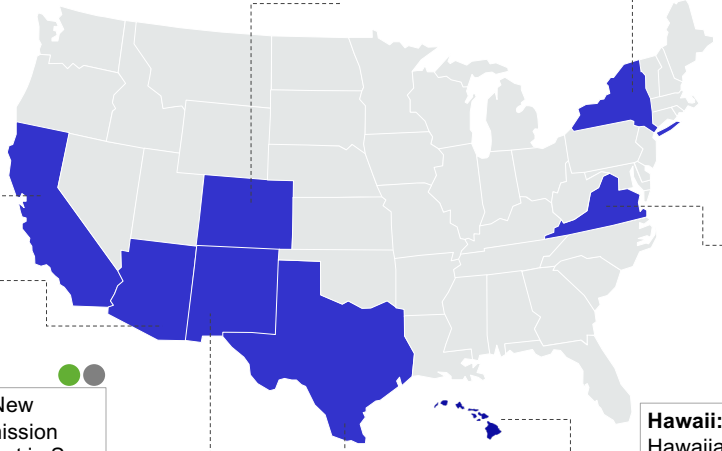
Non-Exhaustive

Colorado: In August 2020, the Colorado Public Utilities Commission approved Xcel Colorado's clean energy plan, replacing coal with wind, solar, & storage

Northwest: PacifiCorp issued a request for proposals for renewables & storage

New York: In October 2020, the New York Power Authority released an agreement to assess how it can transition 461 MW of peaker plants to clean technologies, including storage

California: In May 2020, Southern California Edison announced contracted projects for 770 MW of primarily solar-paired energy storage



Virginia: Dominion Energy's 2020 IRP includes substantial planned investment in renewables & energy storage

Arizona: The Arizona Public Service and Tucson Electric Power released IRPs targeting 100% clean energy by 2050, outlining 6 GW of storage build-out by 2035

New Mexico: In July 2020, the New Mexico Public Regulation Commission approved a plan to replace interest in San Juan coal plant using solar & storage The proposal includes 650 MW of solar & 300 MW of battery storage resources

Hawaii: In September 2020, Hawaiian Electric requested approval of nearly 2 GWh of energy storage paired with solar

Texas: In August 2020, the first large-scale solar & storage project in the state is under construction

Legend

- Storage Plan Inclusion
- Storage Procurement / Approval

Source: Wood Mackenzie Energy Storage Monitor & Grid Edge Quarterly Executive Briefings, '20

BEHIND-THE-METER POLICY DEVELOPMENTS

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Regulations and incentives passed in 2020 will continue to advance behind-the-meter storage.

Non-Exhaustive

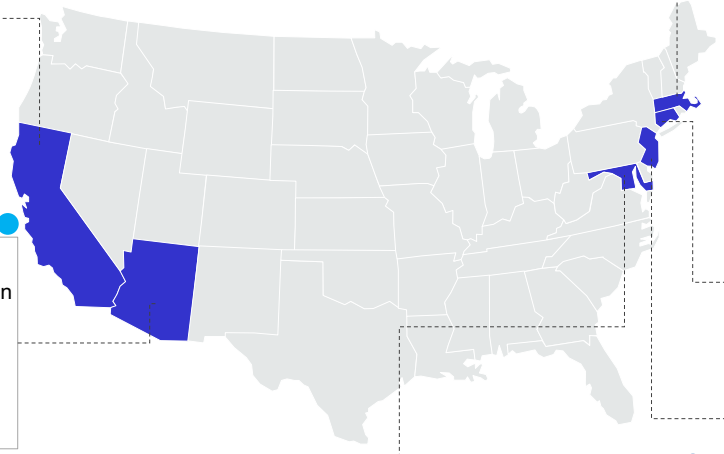
California:

- In October 2020, the California Public Utilities Commission reallocated ~$100m from its large-scale, non-residential storage bucket to be reserved for non-residential equity projects. A key focus will be ensuring that funding properly targets low-income storage customers
- The state legislature introduced a bill to create a microgrid program
- The California Public Utilities Commission issued a decision allowing customers receiving SGIP compensation greater flexibility in enrolling in TOU programs

Arizona:

- In September 2020, the Arizona Corporation Commission approved a residential battery incentive program pilot ($500/kW installed storage)
- In November 2020, Arizona passed rules committing to 100% clean energy by 2050, 5% of grid capacity to be storage by 2035 (40% of being customer owned/leased)

Federal: In September 2020, FERC released Order 2222 which will ensure eligibility for aggregated resources, including energy storage. This order will open up capacity, ancillary service, and energy markets to BTM storage



Massachusetts:

- In August 2020, MA codified its Clean Peak Energy Standard, designed to incentivize clean energy generation during high demand and catalyze the addition of storage. MA Department of Energy Resources issued a final rulemaking regulation for the Clean Peak Standard, including several changes benefiting energy storage. It also issued an emergency rulemaking for the SMART program with requirements for all solar systems >500 kW to have attached storage
- BTM energy storage projects are currently being funded by the DOER's Peak Demand Grant

Connecticut: The Public Utilities Regulatory Authority issued a draft RFP to design a BTM storage Program

New Jersey: Bill SB 2484 would establish an Office of Clean Energy Equity under the Board of Public Utilities and create community and solar programs

Maryland: Dominion Energy's 2020 IRP includes substantial planned investment in renewables & energy storage with target of 250 MW by 2025

Legend

- Policy / Regulatory Directive
- Policy Incentive
- Market Rule Change
- Safety Rule Change

Source: Wood Mackenzie Energy Storage Monitor & Grid Edge Quarterly Executive Briefings, '20

MARKET CHALLENGES & DEVELOPMENTS

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While many barriers remain, energy storage gained momentum in 2020.

Storage Policy and Regulation Continue to Develop

- Historical leaders in energy storage continue to expand storage incentives, such as SGIP in California and SMART in MA, while policies in the southeast & southwest start to gain traction. Hawaiian Electric requested approval of nearly 2 GWh of energy storage systems paired with solar. Puerto Rico may become a force in the market with the development of its "mini-grid" in its draft IRP
- In December 2020, Congress passed a stimulus package increasing funds towards tax incentives and renewable research. $71m per year was allocated to storage to support technology development and understanding of storage's full value to the grid. There is strong interest in a policy push to expand ITC for standalone storage
- U.S. states continue to grapple with safety concerns prompted by 2019 battery storage fires (Arizona). Hardware and software innovation is a key area being explored to enhance safety and mitigate risks via ongoing operations and maintenance
- Interconnection policies continue to struggle in balancing review efficiency, reliability, and safety

Market Participation Rules Remain a Barrier for Storage Proliferation

- Federal policy will impact energy storage markets. FERC Order 841 and FERC Order 2222 will help remove barriers for distributed storage to participate in wholesale electricity markets
- Policy is catching up with market interest in hybrid resources (energy storage coupled with power generation), with 5 wholesale markets actively developing new rules
- ISOs pursue fundamental reforms to the capacity market, including PJM's proposal of an ELCC construct for calculating the capability of energy resources
- Inconsistency in requirements between different ISO's creates challenges for storage vendors, especially smaller players
- Operating batteries to simultaneously tap multiple revenue sources, but "value stacking" is not yet widely practiced due to a number of regulatory challenges. This will begin to change as rules on DER aggregation and net energy exports take shape and new software and hardware technologies address grid operator demands for tight dispatch control

Technology Continues to Mature as Costs Fall

- Lithium-ion is the technology of choice for energy storage with market share above 98% for 2020 deployments. Lithium iron phosphate is becoming increasing more popular for large projects
- Advancements in R&D and manufacturing continue to drive improvements across storage technologies, making batteries more efficient, safe, reliable, and powerful. Future cost declines will be most pronounced for batteries and power control systems
- Lithium-ion continues to be the technology of choice with increased interest in Lithium iron phosphate (LFP) as costs decline. Energy storage deployment still requires large capital investments that are difficult to overcome given narrow value pools

Market Grows despite Challenges from the Pandemic

- COVID-19 creates challenges for shipping, installation/interconnection, and customer acquisition in the energy storage industry. Partnerships between software vendors and developers begin to emerge the later half of 2020

Source: Utility Dive, Wood Mackenzie, Greentech Media, Accenture Analysis

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GLOSSARY – ACRONYMS (1 of 2)

The following acronyms are used in this report.

Acronym	Definition
AIPR	Annual Implementation Progress Report
BEST Act	Better Energy Storage Technology Act
BMS	Battery Management System
BTM	Behind-the-Meter
C&I	Commercial & Industrial
CAGR	Compounded Annual Growth Rate
CAISO	California Independent System Operator
DERs	Distributed Energy Resources
DG	Distributed Generation
DOE	Department of Energy
ELCC	Effective Load Carrying Capability
EPC	Engineering, Procurement, and Construction
ERCOT	Electric Reliability Council of Texas
EV	Electric Vehicle
FERC	Federal Energy Regulatory Commission
FTM	Front-of-the-Meter
GW	Gigawatt
ICC	Illinois Commerce Commission
IOU	Investor-Owned Utility
IPP	Independent Power Producer
IRP	Integrated Resource Plan
ISO	Independent System Operator
ISO-NE	Independent System Operator – New England
ITC	Investment Tax Credit

GLOSSARY – ACRONYMS (2 of 2)

The following acronyms are used in this report.

Acronym	Definition
kW	Kilowatt
LFP	Lithium Iron Phosphate
Li-ion	Lithium-ion
MISO	Midcontinent Independent System Operator
MOPR	Minimum Offer Pricing Rule
MW	Megawatt
NMC	Nickel Manganese Cobalt
PCS	Power Conversion System
PJM	Pennsylvania, Jersey, Maryland Power Pool Regional Transmission Organization
PV	Solar Photo Voltaic
PV + S	Solar Photo Voltaic and Storage
R&D	Research & Development
RTO	Regional Transmission Organization
SB	Senate Bill
SGIP	Self-Generation Incentive Program
SMART	Solar Massachusetts Renewable Target
SPP	Southwest Power Pool
T&D	Transmission & Distribution
WMPA	Wholesale Market Participation Agreement

GLOSSARY – LEVELIZED COST OF STORAGE

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Lazard's 2020 Levelized Cost of Storage (v6.0) report analyzes energy storage cost ranges by various common use cases rather than by specific energy storage technology.

		Use Case Description	Technologies Assessed
In-Front-of-the-Meter	1 Wholesale	• Large-scale energy storage system designed for rapid start and precise following of dispatch signal. Variations in system discharge duration are designed to meet varying system needs (i.e., short-duration frequency regulation, longer-duration energy arbitrage[1] or capacity, etc.) – To better reflect current market trends, this report analyzes one-, two- and four-hour durations[2]	• Lithium Iron Phosphate • Lithium Nickel Manganese Cobalt Oxide
	2 Transmission and Distribution	• Energy storage system designed to defer or avoid transmission and/or distribution upgrades, typically placed at substations or distribution feeders controlled by utilities to provide flexible capacity while also maintaining grid stability	• Lithium Iron Phosphate • Lithium Nickel Manganese Cobalt Oxide • Flow Battery—Vanadium • Flow Battery—Zinc Bromine • Flow Battery—Copper Zinc
	3 Wholesale (PV+Storage)	• Energy storage system designed to be paired with large solar PV facilities to better align timing of PV generation with system demand, reduce solar curtailment and provide grid support	• Lithium Iron Phosphate • Lithium Nickel Manganese Cobalt Oxide • Flow Battery—Vanadium • Flow Battery—Zinc Bromine • Flow Battery—Copper Zinc
Behind-the-Meter	4 Commercial & Industrial (Standalone)	• Energy storage system designed for behind-the-meter peak shaving and demand charge reduction for C&I energy users – Units often configured to support multiple commercial energy management strategies and provide optionality for the system to provide grid services to a utility or the wholesale market, as appropriate in a given region	• Lithium Iron Phosphate • Lithium Nickel Manganese Cobalt Oxide • Flow Battery—Vanadium • Flow Battery—Zinc Bromine • Flow Battery—Copper Zinc
	5 Commercial & Industrial (PV+Storage)	• Energy storage system designed for behind-the-meter peak shaving and demand charge reduction services for C&I energy users – Systems designed to maximize the value of the solar PV system by optimizing available revenues streams and subsidies	• Lithium Iron Phosphate • Lithium Nickel Manganese Cobalt Oxide • Flow Battery—Vanadium • Flow Battery—Zinc Bromine • Flow Battery—Copper Zinc
	6 Residential (PV+Storage)	• Energy storage system designed for behind-the-meter residential home use—provides backup power, power quality improvements and extends usefulness of self-generation (e.g., PV+storage) – Regulates the power supply and smooths the quantity of electricity sold back to the grid from distributed PV applications	• Lithium Iron Phosphate • Lithium Nickel Manganese Cobalt Oxide

Source: Lazard 2020 Levelized Cost of Storage v6.0

GLOSSARY - ENERGY STORAGE USE CASES

Storage applications span the entire electric grid value chain.

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Value Chain	Category	Use Case	Description
Generation	Grid integration	Renewables integration	Optimize (smooth, firm, time-shift, adjust ramping) the output and reactive power capabilities from renewables generation and mitigate rapid output changes by optimum dispatch strategies
	Grid integration	Generation Investment Optimization	Reduce / defer the need for generation resources, such as additional peaking plants or demand response resources in the system to meet peak demand
	Ancillary Services	Operating reserves	Maintain system balance by providing synchronized and non-synchronized stand-by capacity
	Ancillary Services	Black start	Restart electric supply resources in situations when power systems collapse without pulling electricity from the grid
	Generation Operations	Fuel optimization	Hedge and optimize fuel use by utilizing storage during high fuel price hours, in lieu of high priced fuel sources and / or trading excess fuel
	Generation Operations	Emissions optimization	Reduce or moderate the operations of fossil-fuel generation to reduce emissions and optimize emissions trading
	Generation Operations	Heat rate optimization	Optimize and smooth heat rate ramp up/down of conventional generation to manage load conditions on the system
	Generation Operations	Wear and tear	Reduce loading on conventional generation and cycling - particularly Peaker plants during peak hours and mid-range coal plants during off-peak hours
Transmission & Distribution	Ancillary Services	Frequency regulation	Balance continuously shifting supply and demand within a control area with rapid charges and discharges on a sub-hourly, minute-to-minute basis
	Power Quality & Reliability	Reactive Power	Optimize reactive power in the distribution system to maintain uniform and consistent output with renewables
	Power Quality & Reliability	Substation black start	Restart of substations and increased reliability in situations when power systems collapse
	Power Quality & Reliability	Reliability Improvements	Restore power for a limited amount of time in the event of an outage
	T&D Operations	T&D congestion relief	Relief of congestion points due to collocated energy storage injections reducing peak loads
	T&D Operations	T&D Investment Optimization	Reduce / defer the need for large transmission, substation, or T&D investments due to collocated energy storage systems supporting end user peak demand
	T&D Operations	Wear and tear	Reduce wear and tear on T&D equipment (e.g. thermal stressing, frequent tap changer resetting) due to improved voltage and frequency regulation and reduced peak load
	T&D Operations	Line loss reduction	Reduce technical line losses through reduction in longer distance transmission and distribution of electricity due to collocated injection of energy storage
Behind-the-Meter	End-User	Home Management & Back-up Power	Enable retail load shifting and peak-load shaving to reduce time of use charges, and/or participate in Demand Response program, provide back-up power
	End-User	PV & Electric Vehicles	Enable infrastructure, load shifting, improve efficiency & fuel savings, offer protection and control equipment

Primary Non-Utility Use Cases Primary Utility Use Cases

Source: Global Data, Wood Mackenzie Research, DOE, Energy Storage Association, Renewable Energy World, U.S. Energy.Gov, Lazard